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# ARMEL

## ELECTRONICS, INC.

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- Printed Circuit Board Connectors
- Rack and Panel Connectors
- Relay Sockets
- Stand-Off Terminals

1.800.840.0666



# Armel Electronics, Inc.

Mil-Spec Electronic Components

ISO 9001 Registered

**Armel Electronics Inc.** was established in 1949.

Armel has become a recognized leader in the field of military and commercial avionics. Armel has also been influential in aerospace technology, supplying components for today's Space Shuttle missions and as far back as the Mars Mariner Probe of the 1960's.

Armel is constantly on the lookout for new areas of endeavor and new projects.

If you are involved in specification or general design work involving printed circuit board connectors, relay sockets or standoff terminals, then please call us for more detailed literature.

**Armel Electronics Inc., is looking forward to your business well into the 21<sup>st</sup> Century.**

## **Armel Electronics Inc.**

1601 75th street

North Bergen, NJ 07047

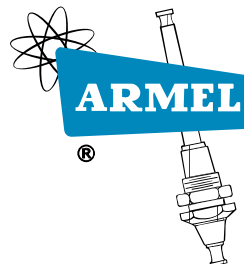
Toll Free: **800.840.0666**

Phone: **201.869.4300**

Fax: **201.869.4304**

E-mail: **info@arમેlelectronics.com**

Website: **www.arમેlelectronics.com**



# GENERAL SPECIFICATIONS

ALL THE COMPONENTS ARE MANUFACTURED IN ACCORDANCE WITH THE FOLLOWING **MIL-SPECS**:

## **MIL-S-12883**

Relay Sockets - meet or exceed

## **MIL-C-55302**

Printed Circuit Connectors - meet or exceed

## **MIL-M-14 ( ASTM-D-5948-96 )**

Insulation Material - diallyl ortho phthalate

## **MIL-G-45204 ( ASTM-B-488-95 )**

Contact Plating - meet or exceed

## **MIL-I-45208**

Inspection System Requirements - meet or exceed

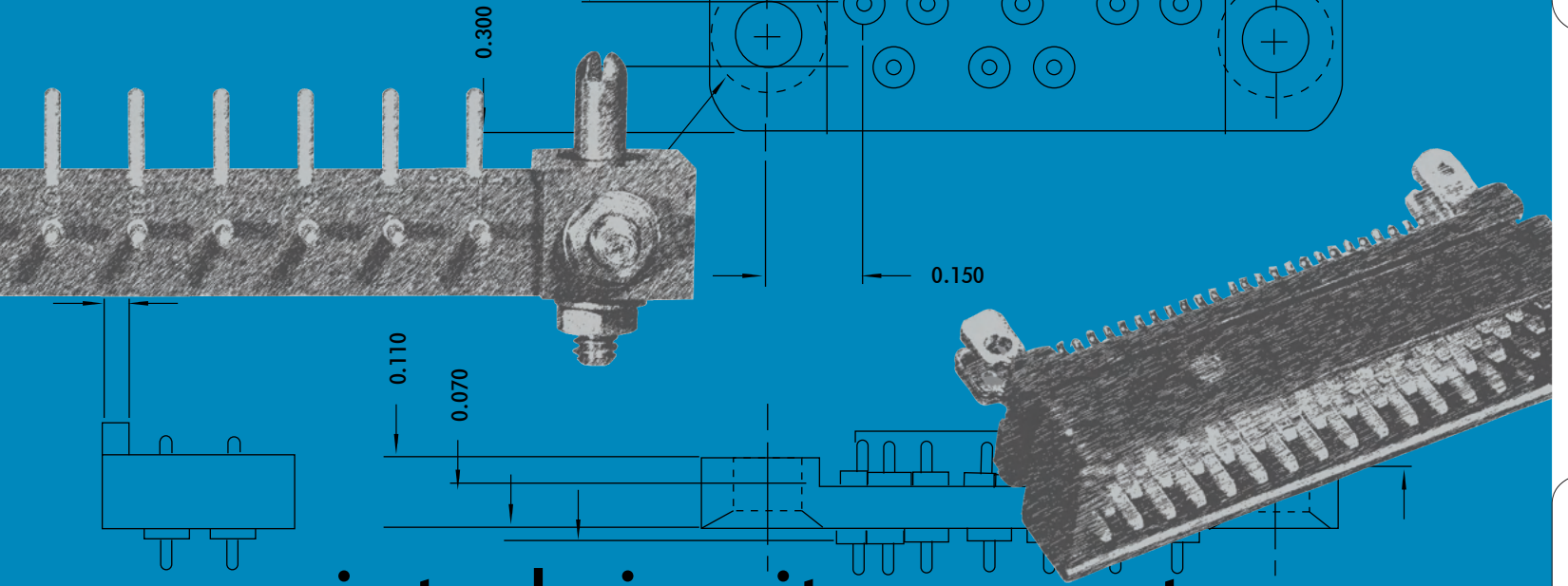
## **MIL-I-45662**

Test Facility Requirements - meet or exceed

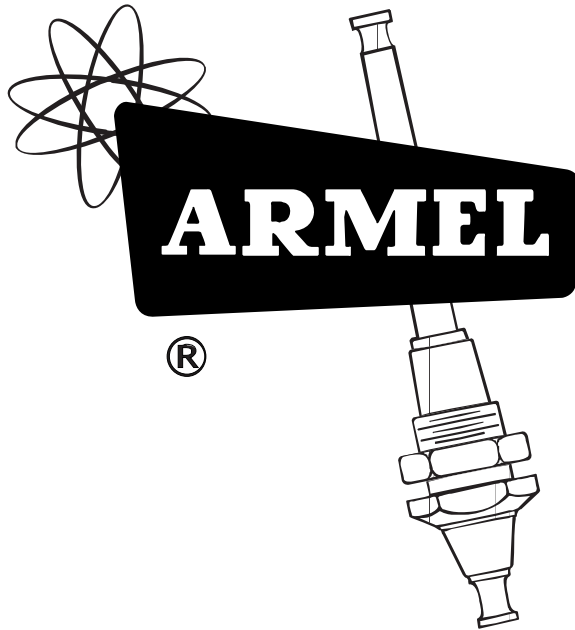
## **HANDLING REQUIREMENTS**

Temperature Rating:

-65° C to +125° C



# printed circuit connectors





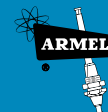
# PRINTED CIRCUIT CONNECTOR INDEX

The printed circuit connectors produced by Armel Electronics, Inc. have been designed to comply with the highest performance requirements for aircraft, communication, and other electronic systems. Rigorous, in-process inspections and stringent quality control requirements guarantee the required performance.

These connectors, designed for today's applications, offer proof of our capability to design connectors for your specific requirement.

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## SPECIFICATIONS

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Listed below are the general specifications applicable to the AB type printed circuit connectors.

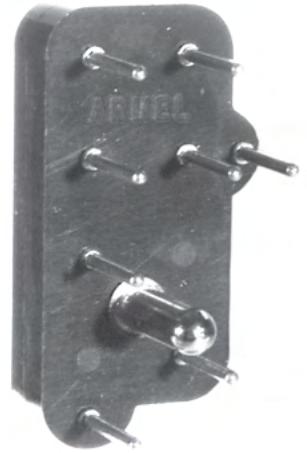
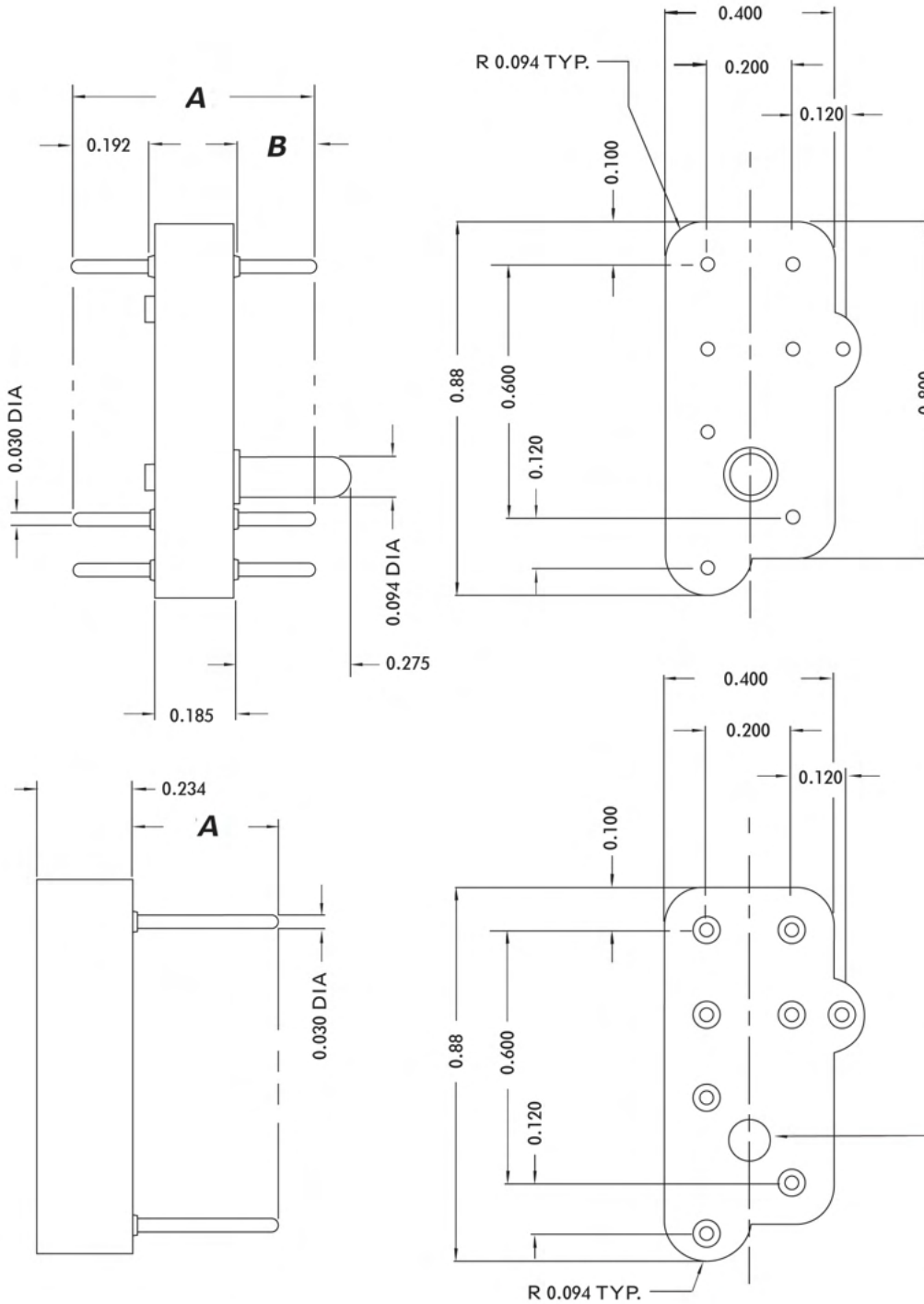
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### ELECTRICAL

Current Rating . . . . .	5 Amperes
Dielectric Withstanding Voltage	
Contact to Contact Sea Level . . . . .	1000 Volts RMS Minimum
Contact to Contact 70,000 Feet . . . . .	300 Volts RMS Minimum

### MECHANICAL

Contact Diameter . . . . .	0.030 Inch
Creepage Between Contacts . . . . .	0.07 Inch Minimum
Air Space Between Contacts . . . . .	0.07 Inch Minimum
Polarization . . . . .	Guide Pins and Contact Arrangement
Socket Contacts . . . . .	Beryllium Copper Gold Plated (0.00005 inch)
Pin Contacts . . . . .	Brass, Hot Solder Dipped, Centriuged and Reflowed Solder 0.0001 to 0.00025 inch
Guide Pins . . . . .	Brass, Nickel Plated
Insulation Material . . . . .	Phenolic, Glass Filled, MIL-M-14, Type MFH, color Black
Temperature Range . . . . .	-65°C to +125°C
Approximate Weight	
AB 8 (Pin) . . . . .	0.10 oz.
AB 8 (Socket) . . . . .	0.10 oz.



PART NO.	A	B
AB-8P-1RF	0.59	0.192
AB-8P-2RF	0.65	0.275



PART NO.	A
AB-8S-4RF	0.10
AB-8S-6RV2	0.35
AB-8S-9RF	0.13

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 01



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## SPECIFICATIONS

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Listed below are the general specifications applicable to the AP type printed circuit connectors.

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### ELECTRICAL

Contact Rating . . . . .	3 amperes
Solder Cup Accomodation	One #24 AWG Wire
Dielectric Withstanding Voltage	
Contact to Contact, Sea Level . . . . .	1000 Volts RMS Minimum
Contact to Contact, 70,000 Ft. . . . .	300 Volts RMS Minimum

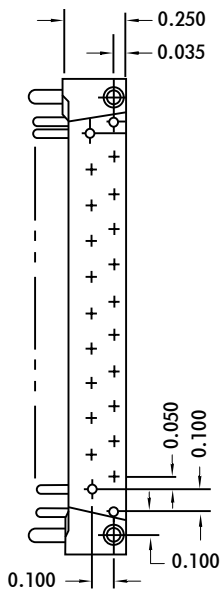
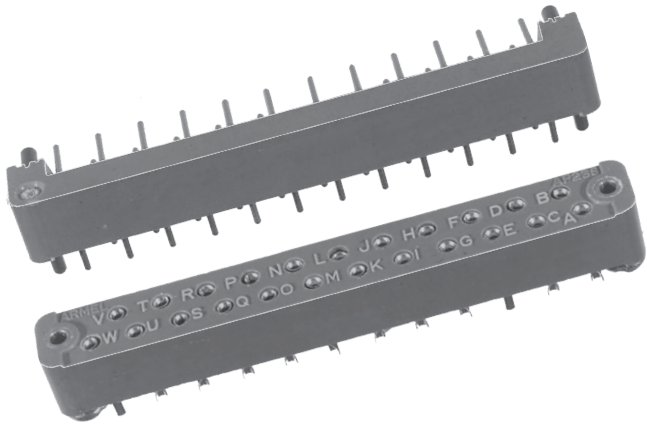
### MECHANICAL

Contact Diameter . . . . .	0.028 Inch
Creepage Between Contacts . . . . .	0.06 Inch Minimum
Air Space Between Contacts . . . . .	0.06 Inch Minimum
Polarization . . . . .	Guide Pins and Contact Arrangement
Socket Contacts . . . . .	Spring Tempered Beryllium Copper, Gold Plated (0.0001 Inch)
Pin Contacts . . . . .	Beryllium Copper, Gold Plated (0.0001 Inch)
Guide Pins and Rivets . . . . .	Stainless Steel, Passivated
Guide Sockets and Rivets	
Solder Cup Assembly . . . . .	Stainless Steel, Passivated
Straight Pin Assembly . . . . .	Brass, Nickel Plated
Insulation Material . . . . .	Diallyl Phthalate, Orlon Filled, Mil-M-14, Type SDI-5
Temperature Range . . . . .	-65? C to +125? C
Approximate Weight	
AP23 ( pin ) . . . . .	0.13 oz.
AP23 ( socket ) . . . . .	0.15 oz.

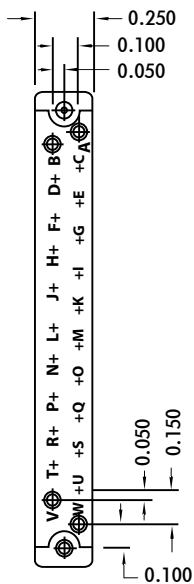
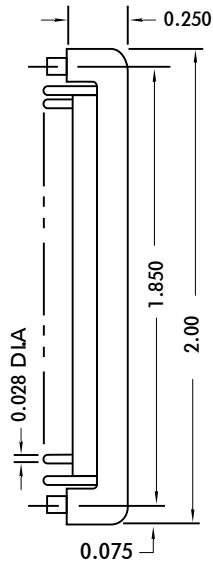




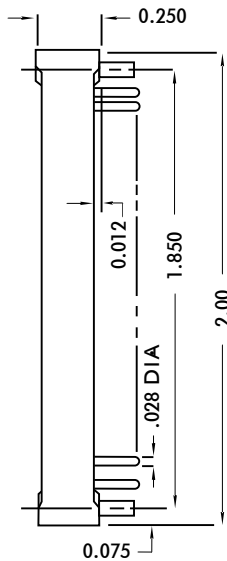
# AP 23 SERIES



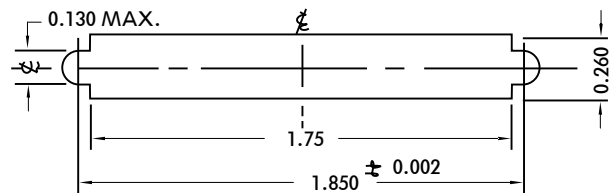
**PLUG**



**RECEPTACLE**



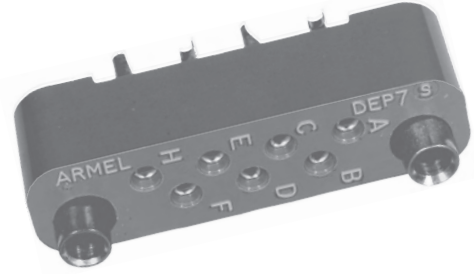
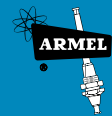
CONTACT DATA		MOUNTING DATA						
		PANEL THICKNESS DIMENSION	0.060 DIA.		0.109 DIA.		0.060 DIA.	
PLUG RIGHT ANGLE	X		A	RIVET	B	CHASSIS	C	RIVET
	.06	.10	.09	AP 23P - 1HW				
	.09							
.12								
RECEPTACLE STRAIGHT	.06	.11				.09	AP 23S - 4 HW	
	.09							
	.12	.18				.16	AP 23S - 744 HW	
RECEPTACLE SOLDER CUP	.06			.05	AP 23S - 51HW	.09	AP 23S - 61HW	



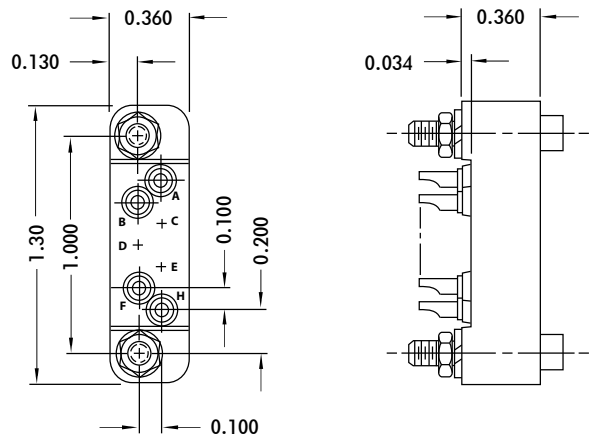
LATERAL FLOAT: .020 Max.  
Recommended chassis cut-out  
(Part No. AP 23S - 51HW)

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 03

# DEP 7 SERIES

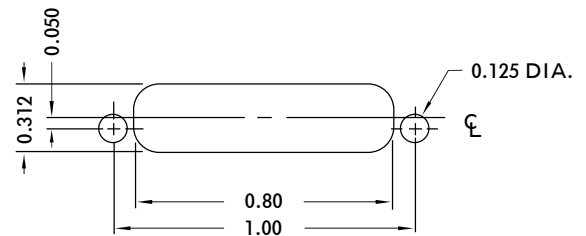


MOUNTING DATA							CONTACT DATA		
							DIMENSION		
							PANEL THICKNESS		
RIVET	C	STUD	B	GUIDE	A	X			
				DEP 7S - 411LV2	.25	—	.06		OPEN ENTRY
				DEP 7S - 415LV2	.31	—	.09		
				DEP 7S - 415LV2	.31	—	.12		
				DEP 7S - 412LV2	.25	—	.06		OPEN ENTRY
				DEP 7S - 416LV2	.31	—	.09		
				DEP 7S - 416LV2	.31	—	.12		
				DEP 7S - 413LV2	.25	—	.06		OPEN ENTRY
				DEP 7S - 417LV2	.31	—	.09		
				DEP 7S - 417LV2	.31	—	.12		
				DEP 7S - 414LV2	.25	.11	.06		OPEN ENTRY
				DEP 7S - 418LV2	.31	.19	.09		
				DEP 7S - 418LV2	.31	.19	.12		
				DEP 7S - 423LV2	.25	.79	.06		OPEN ENTRY
				DEP 7S - 428LV2	.31	.79	.09		
				DEP 7S - 428LV2	.31	.79	.12		



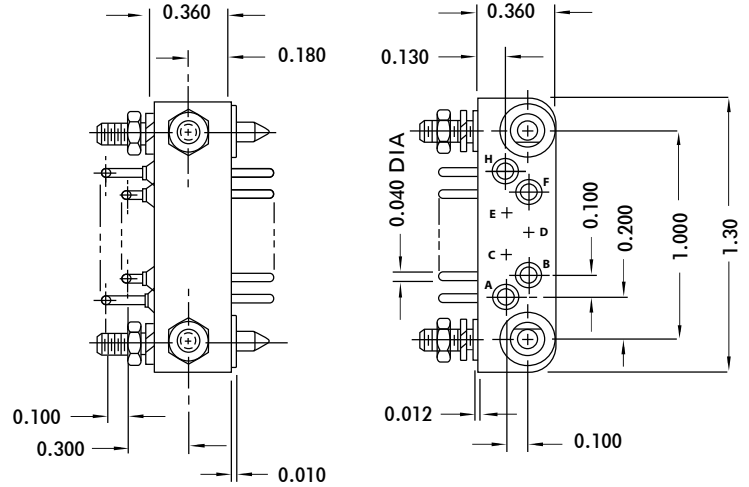
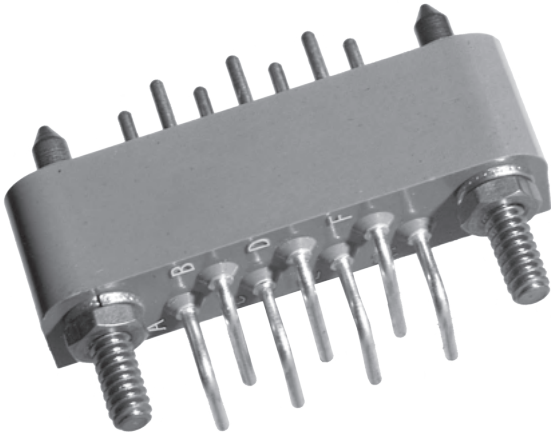
RECEPTACLE

				DEP 7K - 411LV2	.25	—	.06		CLOSED ENTRY
				DEP 7K - 415LV2	.31	—	.09		
				DEP 7K - 415LV2	.31	—	.12		
				DEP 7K - 413LV2	.25	—	.06		CLOSED ENTRY
				DEP 7K - 417LV2	.31	—	.09		
				DEP 7K - 417LV2	.31	—	.12		
				DEP 7K - 414LV2	.25	.19	.06		CLOSED ENTRY
				DEP 7K - 414LV2	.31	.19	.09		
				DEP 7K - 414LV2	.31	.19	.12		
				DEP 7K - 433LV2	.25	.60	.06		CLOSED ENTRY
				DEP 7K - 438LV2	.31	.60	.09		
				DEP 7K - 438LV2	.31	.60	.12		
							.06		CLOSED ENTRY
							.09		
							.12		



RECOMMENDED CHASSIS CUT-OUT  
Mounting Hardware  
Stainless Steel, Passivated

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 27



**PLUG**

CONTACT DATA		MOUNTING DATA						
		PANEL THICKNESS	NO. 4-40		NO. 4-40		0.109D.	
RIGHT ANGLE	DIMENSION	X	A	GUIDE	B	STUD	C	RIVET
	PLUG	STRAIGHT	.06	.14		.22	DEP 7P-83LV2	.09
.09			.14		.25	DEP 7P-196LV2	.12	
.12			.20		.31	DEP 7P-194LV2	.16	
SOLDER-CUP	STRAIGHT	.06	.20	.25	DEP 7PC-31LV2			
		.09	.20	.25	DEP 7PC-32LV2			
		.12	.24	.25	DEP 7PC-33LV2			
SOLDER-CUP	STRAIGHT	.06	—					
		.09	—					
		.12	—					

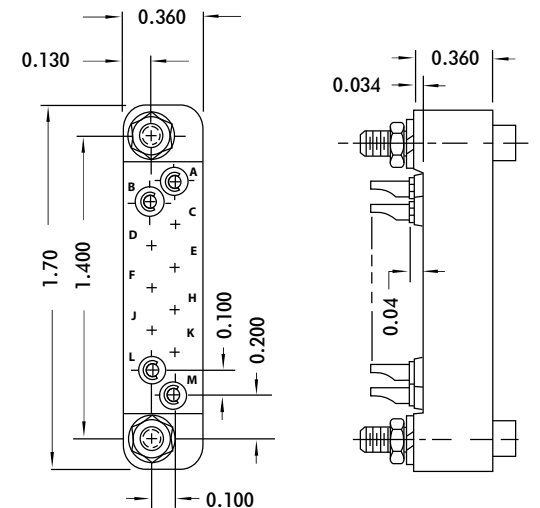
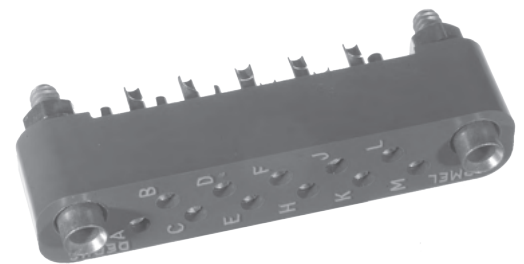
Mounting Hardware  
Stainless Steel, Passivated

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 27

# DEP 11 SERIES

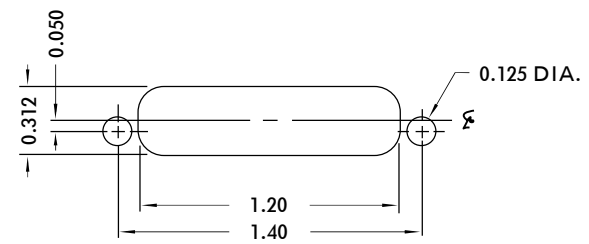


MOUNTING DATA						CONTACT DATA
RIVET		STUD		GUIDE		
C	B	A	X	PANEL THICKNESS		
DEP 11S - 41JV2	.09	DEP 11S - 96JV2	.22	DEP 11S - 1JV2	.25	— .06
DEP 11S - 42JV2	.12	DEP 11S - 85JV2	.25	DEP 11S - 5JV2	.33	— .09
DEP 11S - 43JV2	.16	DEP 11S - 86JV2	.31	DEP 11S - 5JV2	.33	— .12
				DEP 11S - 2JV2	.25	— .06
				DEP 11S - 6JV2	.33	— .09
				DEP 11S - 6JV2	.33	— .12
				DEP 11S - 3JV2	.25	— .06
				DEP 11S - 7JV2	.33	— .09
				DEP 11S - 7JV2	.33	— .12
				DEP 11S - 34JV2	.25	.11 .06
				DEP 11S - 8JV2	.33	.19 .09
				DEP 11S - 8JV2	.33	.19 .12
				DEP 11S - 13JV2	.25	.79 .06
				DEP 11S - 18JV2	.33	.79 .09
				DEP 11S - 18JV2	.33	.79 .12



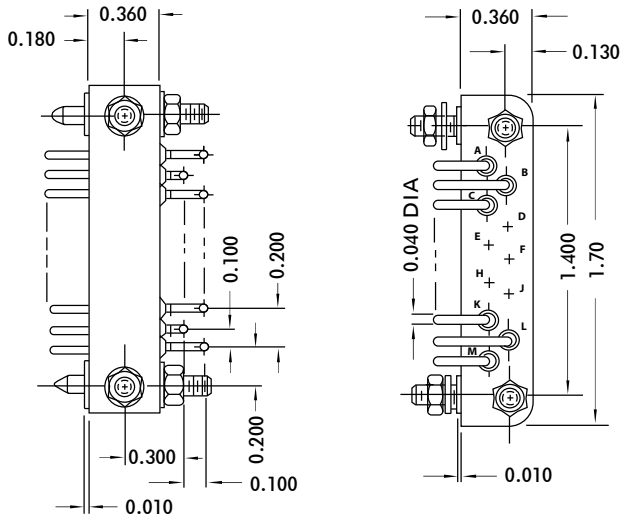
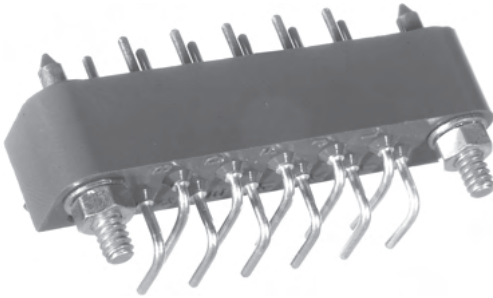
RECEPTACLE

DEP 11K - 41JV2	.09	DEP 11K - 96JV2	.22	DEP 11K - 1JV2	.25	— .06	SOLDER CUP
DEP 11K - 42JV2	.12	DEP 11K - 85JV2	.25	DEP 11K - 5JV2	.33	— .09	
DEP 11K - 43JV2	.16	DEP 11K - 86JV2	.31	DEP 11K - 5JV2	.33	— .12	EYELET
				DEP 11K - 3JV2	.25	— .06	
				DEP 11K - 7JV2	.33	— .09	STRAIGHT PIN
				DEP 11K - 7JV2	.33	— .12	
				DEP 11K - 4JV2	.33	.19 .06	WIRE WRAP
				DEP 11K - 8JV2	.33	.19 .09	
				DEP 11K - 8JV2	.33	.19 .12	WIRE WRAP
				DEP 11K - 433JV2	.25	.60 .06	
				DEP 11K - 438JV2	.31	.60 .09	RIGHT ANGLE
				DEP 11K - 438JV2	.31	.60 .12	
		DEP 11K - 591JV2	.22	DEP 11K - 794JV2	.22	.15 .06	RIGHT ANGLE
		DEP 11K - 594JV2	.25	DEP 11K - 795JV2	.33	.15 .09	
		DEP 11K - 595JV2	.31	DEP 11K - 795JV2	.33	.15 .12	

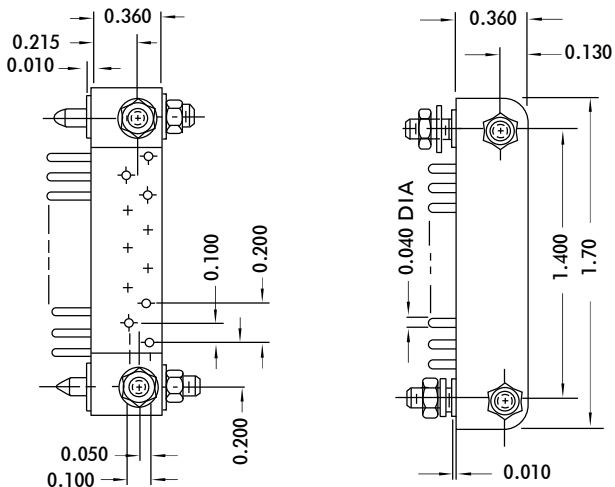


RECOMMENDED CHASSIS CUT-OUT

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 27



**PLUG**



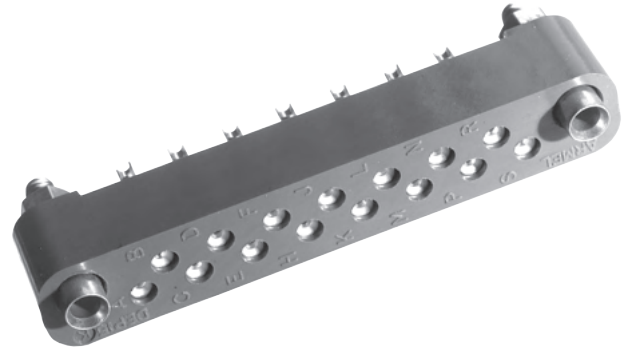
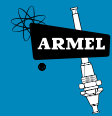
**PLUG**

CONTACT DATA		MOUNTING DATA					
		PANEL THICKNESS DIMENSION		NO. 4-40		NO. 4-40	
RIGHT ANGLE	X	A	GUIDE	B	STUD	C	RIVET
		.06	.14			.22	DEP 11P - 3JV2
.09	.14			.25	DEP 11P - 6JV2	.12	DEP 11P - 42JV2
.12	.20			.31	DEP 11P - 4JV2	.16	DEP 11P - 43JV2
PLUG	STRAIGHT	.06	.20	.25	DEP 11P - 31JV2		
		.09	.20	.25	DEP 11P - 32JV2		
		.12	.24	.25	DEP 11P - 33JV2		
SOLDER-CUP	.06	—	.25	DEP 11P - 91JV2	.22	DEP 11P - 96JV2	
	.09	—	.25	DEP 11P - 91JV2	.25	DEP 11P - 85JV2	
	.12	—	.25	DEP 11P - 91JV2	.31	DEP 11P - 86JV2	

CONTACT DATA		MOUNTING DATA							
		BOARD THICKNESS DIMENSION		NO. 4-40		NO. 4-40			
PLUG	X	A	INSERT	B	STUD	C	RIVET		
		.06	.09	.14	DEP 11M - 53JV2	.22	DEP 11M - 3JV2	.09	DEP 11M - 41JV2
		.09	.14	.14	DEP 11M - 519JV2	.25	DEP 11M - 19JV2	.12	DEP 11M - 42JV2
.12	.16	.14	DEP 11M - 54JV2	.31	DEP 11M - 4JV2	.16	DEP 11M - 43JV2		

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 27

# DEP 15 SERIES

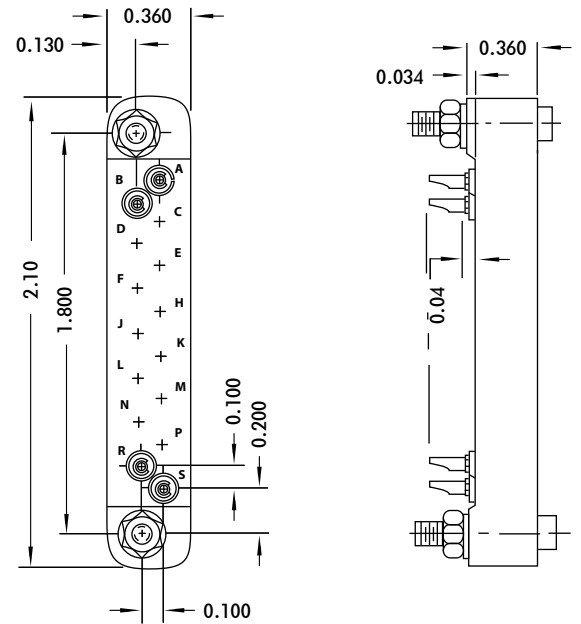


MOUNTING DATA						DIMENSION	PANEL THICKNESS	CONTACT DATA
RIVET	C	STUD	B	GUIDE	A			
DEP 15S - 41JV2	.09	DEP 15S - 96JV2	.22	DEP 15S - 1JV2	.25	—	.06	
DEP 15S - 42JV2	.12	DEP 15S - 85JV2	.25	DEP 15S - 5JV2	.33	—	.09	
DEP 15S - 43JV2	.16	DEP 15S - 86JV2	.31	DEP 15S - 5JV2	.33	—	.12	
				DEP 15S - 2JV2	.25	—	.06	
				DEP 15S - 6JV2	.33	—	.09	
				DEP 15S - 6JV2	.33	—	.12	
				DEP 15S - 3JV2	.25	—	.06	
				DEP 15S - 7JV2	.33	—	.09	
				DEP 15S - 7JV2	.33	—	.12	
				DEP 15S - 34JV2	.25	.11	.06	
				DEP 15S - 8JV2	.33	.19	.09	
				DEP 15S - 8JV2	.33	.19	.12	
				DEP 15S - 13JV2	.25	.79	.06	
				DEP 15S - 18JV2	.33	.79	.09	
				DEP 15S - 18JV2	.33	.79	.12	

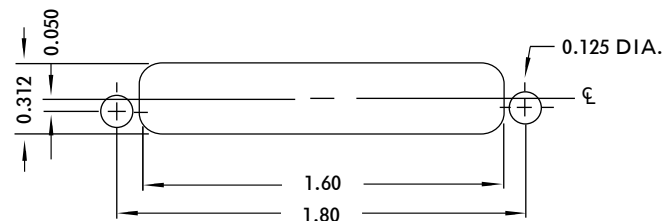
DEP 15K - 41JV2	.09	DEP 15K - 96JV2	.22	DEP 15K - 1JV2	.25	—	.06
DEP 15K - 42JV2	.12	DEP 15K - 85JV2	.25	DEP 15K - 5JV2	.33	—	.09
DEP 15K - 43JV2	.16	DEP 15K - 86JV2	.31	DEP 15K - 5JV2	.33	—	.12
				DEP 15K - 3JV2	.25	—	.06
				DEP 15K - 7JV2	.33	—	.09
				DEP 15K - 7JV2	.33	—	.12
				DEP 15K - 4JV2	.33	.19	.06
				DEP 15K - 8JV2	.33	.19	.09
				DEP 15K - 8JV2	.33	.19	.12
				DEP 15K - 433JV2	.25	.60	.06
				DEP 15K - 438JV2	.31	.60	.09
				DEP 15K - 438JV2	.31	.60	.12
		DEP 15K - 591JV2	.22	DEP 15K - 794JV2	.22	.15	.06
		DEP 15K - 594JV2	.25	DEP 15K - 795JV2	.33	.15	.09
		DEP 15K - 595JV2	.31	DEP 15K - 795JV2	.33	.15	.12

OPEN ENTRY

CLOSED ENTRY

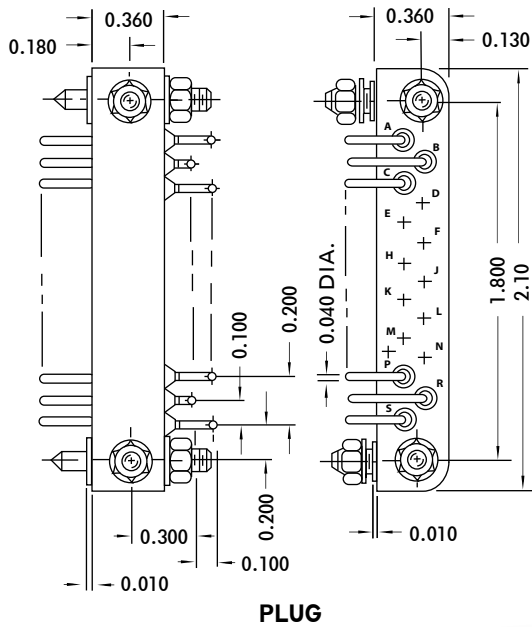


RECEPTACLE

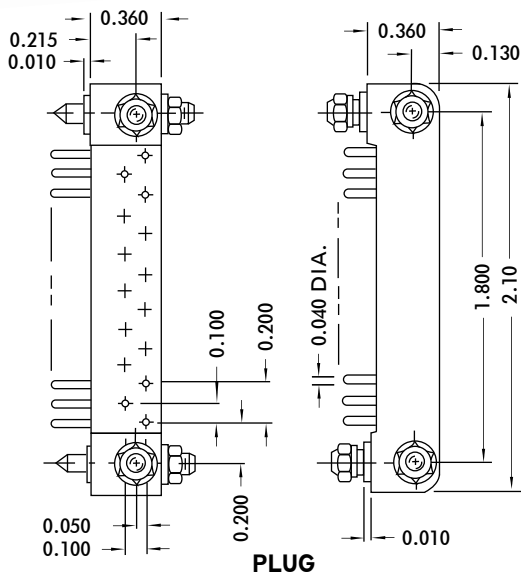


RECOMMENDED CHASSIS CUT-OUT

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 27



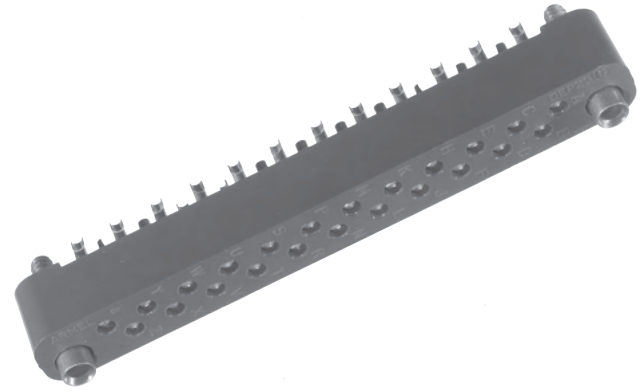
CONTACT DATA		MOUNTING DATA						
		PANEL THICKNESS	NO. 4-40		NO. 4-40		0.109D.	
PLUG	RIGHT ANGLE	X	A	GUIDE	B	STUD	C	RIVET
			.06	.14		.22	DEP 15P - 3JV2	.09
		.09	.14		.25	DEP 15P - 6JV2	.12	DEP 15P - 42JV2
		.12	.20		.31	DEP 15P - 4JV2	.16	DEP 15P - 43JV2
	STRAIGHT							
		.06	.20	.25	DEP 15P - 31JV2			
		.09	.20	.25	DEP 15P - 32JV2			
		.12	.24	.25	DEP 15P - 33JV2			
	SOLDER-CUP							
		.06	—	.25	DEP 15P - 91JV2	.22	DEP 15P - 96JV2	
		.09	—	.25	DEP 15P - 91JV2	.25	DEP 15P - 85JV2	
		.12	—	.25	DEP 15P - 91JV2	.31	DEP 15P - 86JV2	



CONTACT DATA		MOUNTING DATA							
		BOARD THICKNESS	NO. 4-40		NO. 4-40		0.109D.		
PLUG	RIGHT ANGLE	X	A	INSERT	B	STUD	C	RIVET	
			.06	.09	.14	DEP 15M - 53JV2	.22	DEP 15M - 3JV2	.09
		.09	.14	.14	DEP 15M - 519JV2	.25	DEP 15M - 19JV2	.12	DEP 15M - 42JV2
		.12	.16	.14	DEP 15M - 54JV2	.31	DEP 15M - 4JV2	.16	DEP 15M - 43JV2

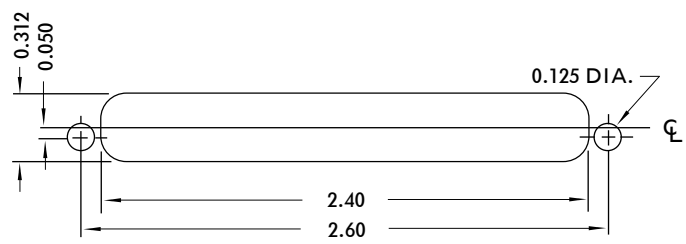
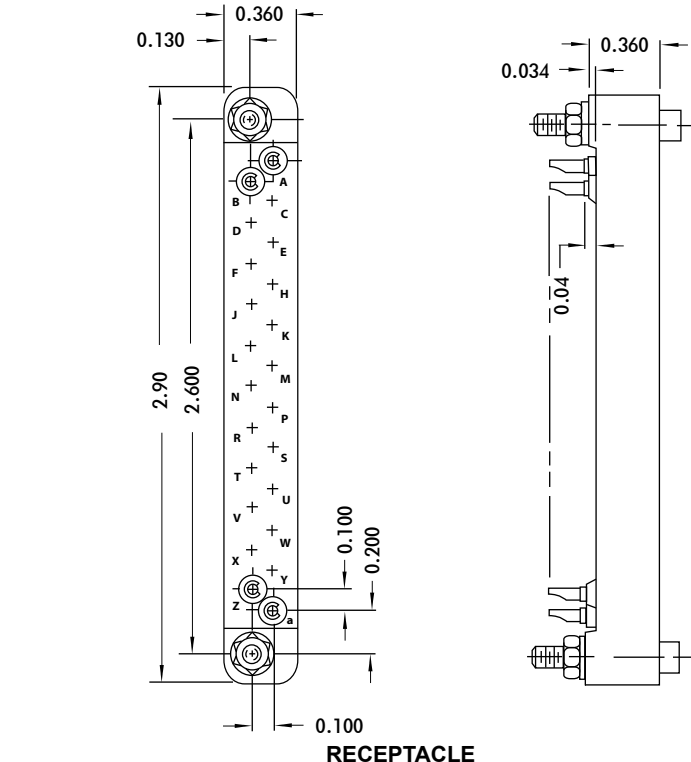
FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 27

# DEP 23 SERIES



MOUNTING DATA						CONTACT DATA	DIMENSION	PANEL THICKNESS
RIVET	C	STUD	B	GUIDE	A X			
DEP 23S - 41JV2	.09	DEP 23S - 96JV2	.22	DEP 23S - 1JV2	.25	—	.06	
DEP 23S - 42JV2	.12	DEP 23S - 85JV2	.25	DEP 23S - 5JV2	.33	—	.09	
DEP 23S - 43JV2	.16	DEP 23S - 86JV2	.31	DEP 23S - 5JV2	.33	—	.12	
				DEP 23S - 2JV2	.25	—	.06	
				DEP 23S - 6JV2	.33	—	.09	
				DEP 23S - 6JV2	.33	—	.12	
				DEP 23S - 3JV2	.25	—	.06	
				DEP 23S - 7JV2	.33	—	.09	
				DEP 23S - 7JV2	.33	—	.12	
				DEP 23S - 34JV2	.25	.11	.06	
				DEP 23S - 8JV2	.33	.19	.09	
				DEP 23S - 8JV2	.33	.19	.12	
				DEP 23S - 13JV2	.25	.79	.06	
				DEP 23S - 18JV2	.33	.79	.09	
				DEP 23S - 18JV2	.33	.79	.12	

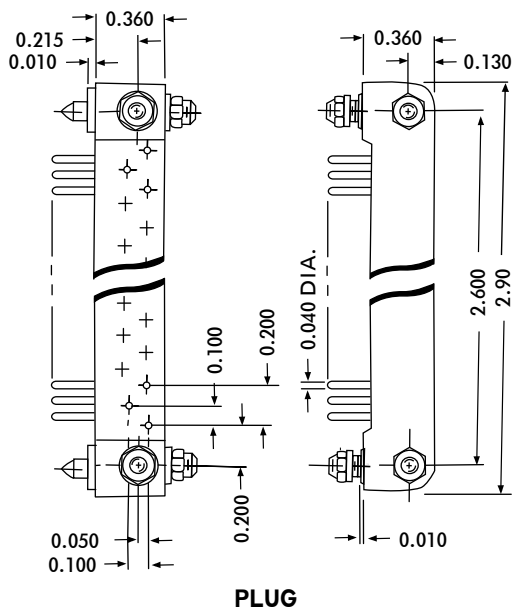
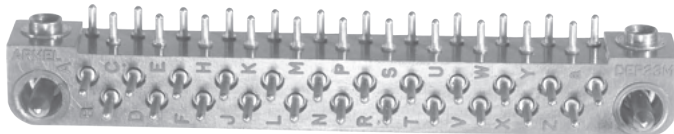
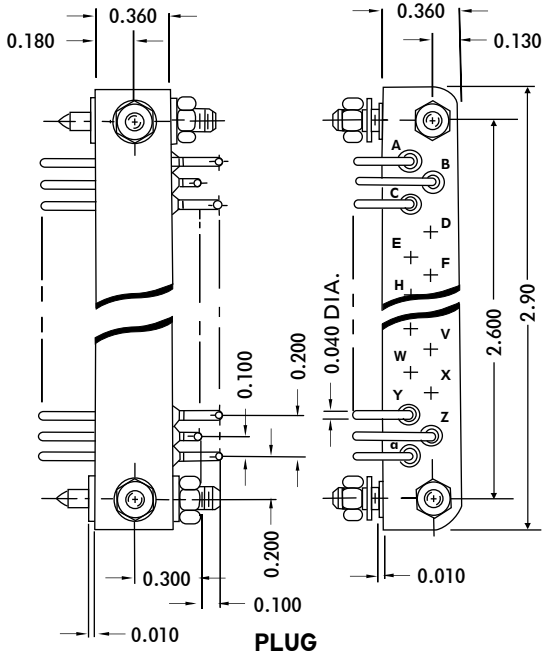
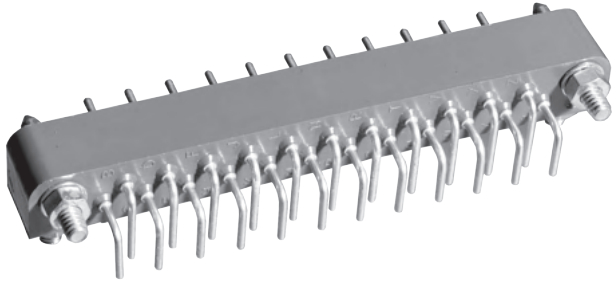
MOUNTING DATA						CONTACT DATA	DIMENSION	PANEL THICKNESS
RIVET	C	STUD	B	GUIDE	A X			
DEP 23K - 41JV2	.09	DEP 23K - 96JV2	.22	DEP 23K - 1JV2	.25	—	.06	
DEP 23K - 42JV2	.12	DEP 23K - 85JV2	.25	DEP 23K - 5JV2	.33	—	.09	
DEP 23K - 43JV2	.16	DEP 23K - 86JV2	.31	DEP 23K - 5JV2	.33	—	.12	
				DEP 23K - 3JV2	.25	—	.06	
				DEP 23K - 7JV2	.33	—	.09	
				DEP 23K - 7JV2	.33	—	.12	
				DEP 23K - 4JV2	.33	—	.06	
				DEP 23K - 8JV2	.33	—	.09	
				DEP 23K - 8JV2	.33	—	.12	
				DEP 23K - 433JV2	.25	.60	.06	
				DEP 23K - 438JV2	.31	.60	.09	
				DEP 23K - 438JV2	.31	.60	.12	
		DEP 23K - 591JV2	.22	DEP 23K - 794JV2	.22	.15	.06	
		DEP 23K - 594JV2	.25	DEP 23K - 795JV2	.33	.15	.09	
		DEP 23K - 595JV2	.31	DEP 23K - 795JV2	.33	.15	.12	



RECOMMENDED CHASSIS CUT-OUT

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 27



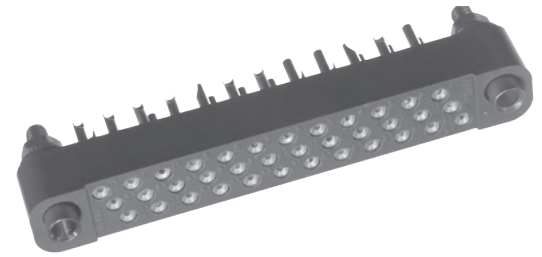


CONTACT DATA		MOUNTING DATA					
		PANEL THICKNESS		GUIDE		RIVET	
PLUG	RIGHT ANGLE	NO. 4-40	NO. 4-40		NO. 4-40		
		A	B	C			
		.06	.14	.22	DEP 23P - 3JV2	.09	DEP 23P - 41JV2
		.09	.14	.25	DEP 23P - 6JV2	.12	DEP 23P - 42JV2
		.12	.20	.31	DEP 23P - 4JV2	.16	DEP 23P - 43JV2
	STRAIGHT	.06	.20	.25	DEP 23P - 31JV2		
		.09	.20	.25	DEP 23P - 32JV2		
		.12	.24	.25	DEP 23P - 33JV2		
	SOLDER-CUP	.06	—	.25	DEP 23P - 91JV2	.22	DEP 23P - 96JV2
		.09	—	.25	DEP 23P - 91JV2	.25	DEP 23P - 85JV2
		.12	—	.25	DEP 23P - 91JV2	.31	DEP 23P - 86JV2

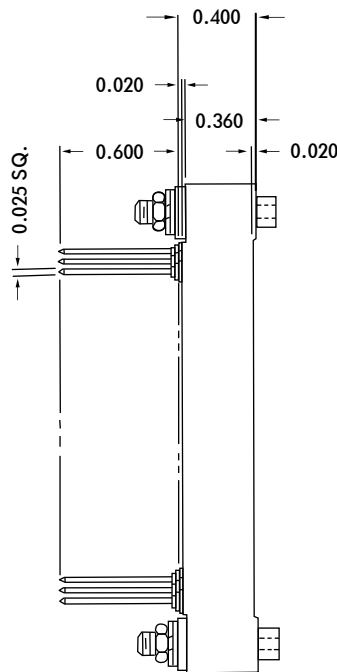
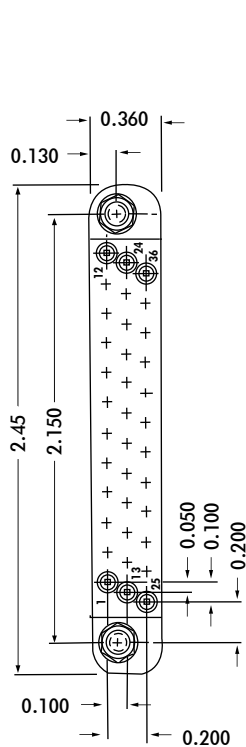
CONTACT DATA		MOUNTING DATA							
		BOARD THICKNESS		INSERT		RIVET			
PLUG		NO. 4-40	NO. 4-40		NO. 4-40				
		A	B	C					
		.06	.09	.14	DEP 23M - 53JV2	.22	DEP 23M - 3JV2	.09	DEP 23M - 41JV2
		.09	.14	.14	DEP 23M - 519JV2	.25	DEP 23M - 19JV2	.12	DEP 23M - 42JV2
		.12	.16	.14	DEP 23M - 54JV2	.31	DEP 23M - 4JV2	.16	DEP 23M - 43JV2

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 27

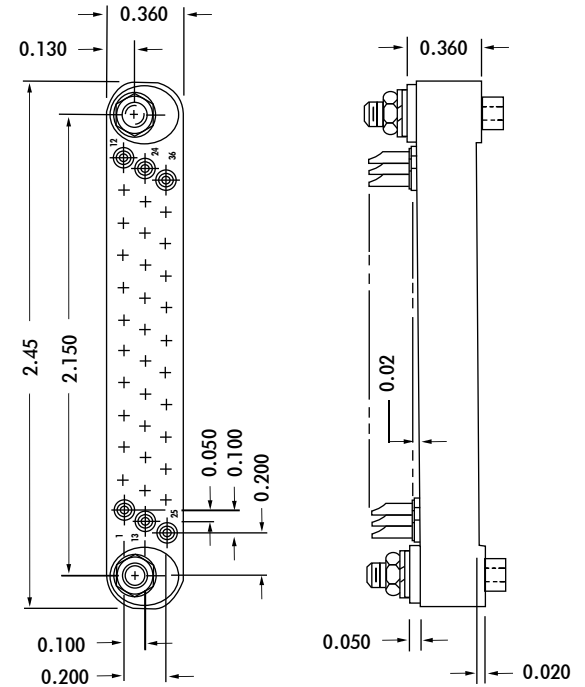
# DEP 36 SERIES



MOUNTING DATA							CONTACT DATA		
RIVET		STUD		GUIDE		DIMENSION	PANEL THICKNESS		
C	B	A	X						
				DEP 36K - 301JV2	.25	.18	.06	 SOLDER CUP	
				DEP 36K - 141JV2	.31	.18	.09		
				DEP 36K - 141JV2	.31	.18	.12		
				DEP 36K - 48JV2	.25	.27	.06	 STRAIGHT PIN	
				DEP 36K - 8JV2	.31	.27	.09		
				DEP 36K - 8JV2	.31	.27	.12		
				DEP 36K - 433JV2	.25	.57	.06	 WIRE WRAP	
				DEP 36K - 438JV2	.25	.57	.09		
				DEP 36K - 438JV2	.25	.57	.12		
				DEP 36K - 122JV2	.25	—	.06	 TURRET	
				DEP 36K - 222JV2	.31	—	.09		
				DEP 36K - 222JV2	.31	—	.12		



DEP 36WK-9101JV2  
RECEPTACLE

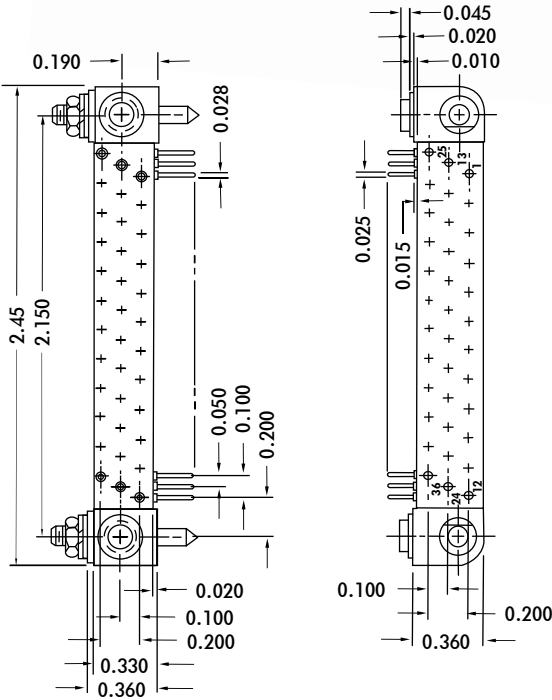
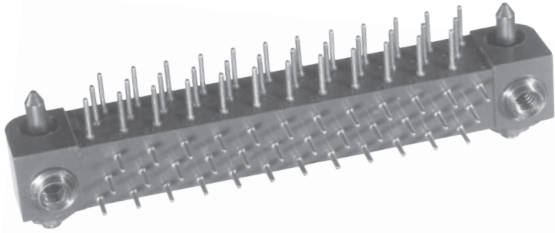


RECEPTACLE

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 14



# DEP 36 SERIES



**PLUG**

CONTACT DATA		MOUNTING DATA							
		BOARD THICKNESS		NO. 4-40		NO. 4-40		0.109D	
PLUG	DIMENSION	X	A	INSERT	B	STUD	C	RIVET	
		.06	.11	.14	DEP36M-653JV2				
		.09							
	.12								

## SPECIFICATIONS

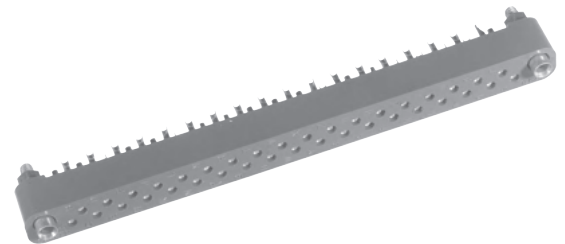
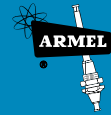
### ELECTRICAL

- Current Rating . . . . . 5 Amperes
- Solder Cup Accomodation . . . . . One #24 A.W.G. Wire
- Dielectric Withstanding Voltage
- Contact to Contact Sea Level . . . . . 1000 Volts RMS Minimum
- Contact to Contact 70,000 Feet . . . . . 300 Volts RMS Minimum

### MECHANICAL

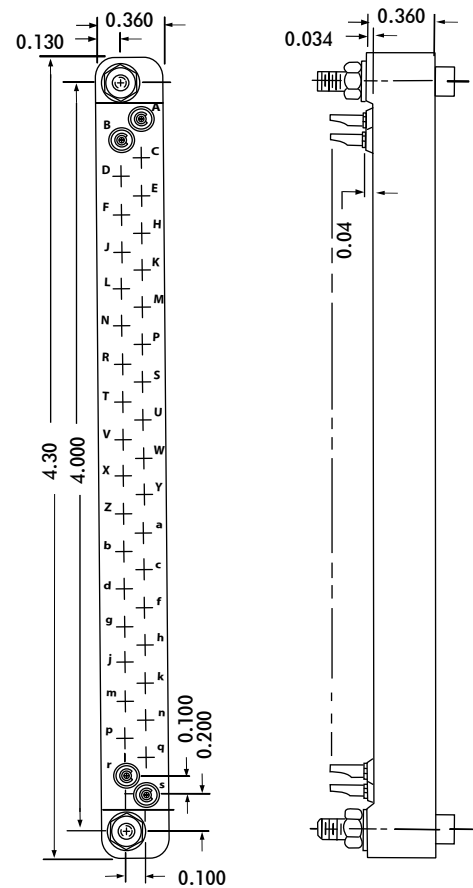
- Contact Diameter . . . . . 0.028 inch
- Creepage Between Contacts . . . . . 0.06 inch Minimum
- Air Space Between Contacts . . . . . 0.06 inch Minimum
- Polarization . . . . . Guide pins and contact arrangement
- Socket Contacts . . . . . Spring Tempered, Phosphor Bronze, Gold Plated (0.00005 inch) per MIL-G-45204, Type II, Class 1 over Copper Plate (Other platings also available)
- Pin Contacts . . . . . Phosphor Bronze, Gold Plated (0.00005 inch) per MIL-G-45204, Type II Class 1 over Copper Plate (OTHER PLATINGS ALSO AVAILABLE)
- Guide Pins, Sockets and Hardware . . . . . Stainless Steel, passivated
- Mounting Studs and Hardware . . . . . Stainless Steel, passivated
- Insulation Material . . . . . Diallyl Phthalate, Glass filled per MIL-M-14, Type GDI-30F
- Temperature Range . . . . . -65? C to + 125? C

# DEP 37 SERIES

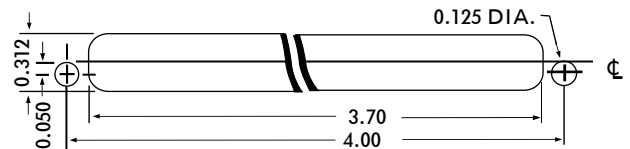


MOUNTING DATA						CONTACT DATA	
RIVET		STUD		GUIDE		DIMENSION	PANEL THICKNESS
RIVET	C	STUD	B	GUIDE	A	X	
DEP 37S - 41JV2	.09	DEP 37S - 96JV2	.22	DEP 37S - 1JV2	.25	—	.06
DEP 37S - 42JV2	.12	DEP 37S - 85JV2	.25	DEP 37S - 5JV2	.33	—	.09
DEP 37S - 43JV2	.16	DEP 37S - 86JV2	.31	DEP 37S - 5JV2	.33	—	.12
<b>OPEN ENTRY</b>							
SOLDER CUP							
TURRET							
EYELET							
STRAIGHT PIN							
WIRE WRAP							

DEP 37K - 41JV2	.09	DEP 37K - 96JV2	.22	DEP 37K - 1JV2	.25	—	.06
DEP 37K - 42JV2	.12	DEP 37K - 85JV2	.25	DEP 37K - 5JV2	.33	—	.09
DEP 37K - 43JV2	.16	DEP 37K - 86JV2	.31	DEP 37K - 5JV2	.33	—	.12
<b>CLOSED ENTRY</b>							
SOLDER CUP							
EYELET							
STRAIGHT PIN							
WIRE WRAP							
RIGHT ANGLE							

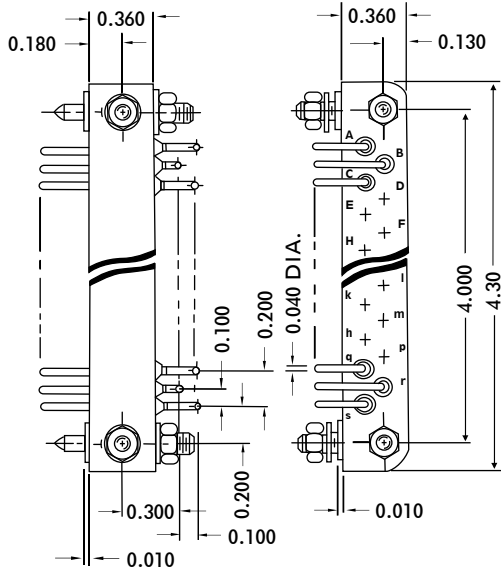
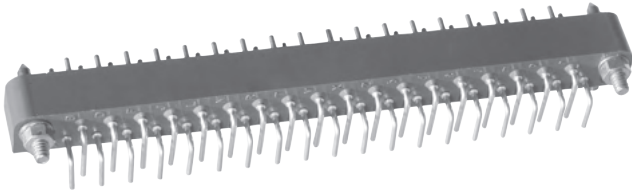


RECEPTACLE



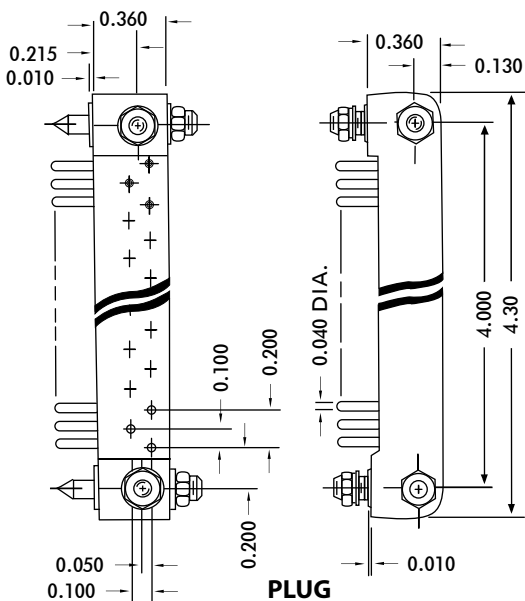
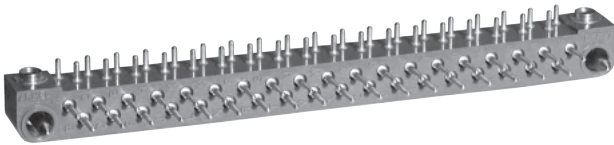
RECOMMENDED CHASSIS CUT-OUT

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 27



**PLUG**

CONTACT DATA		MOUNTING DATA						
		PANEL THICKNESS	NO. 4-40		NO. 4-40		0.109D.	
PLUG	RIGHT ANGLE	X	A	GUIDE	B	STUD	C	RIVET
			.06	.14		.22	DEP 37P - 3JV2	.09
		.09	.14		.25	DEP 37P - 6JV2	.12	DEP 37P - 42JV2
		.12	.20		.31	DEP 37P - 4JV2	.16	DEP 37P - 43JV2
	STRAIGHT	.06	.20	.25	DEP 37P - 31JV2			
		.09	.20	.25	DEP 37P - 32JV2			
		.12	.24	.25	DEP 37P - 33JV2			
	SOLDER-CUP	.06	-	.25	DEP 37P - 91JV2	.22	DEP 37P - 96JV2	
		.09	-	.25	DEP 37P - 91JV2	.25	DEP 37P - 85JV2	
		.12	-	.25	DEP 37P - 91JV2	.31	DEP 37P - 86JV2	

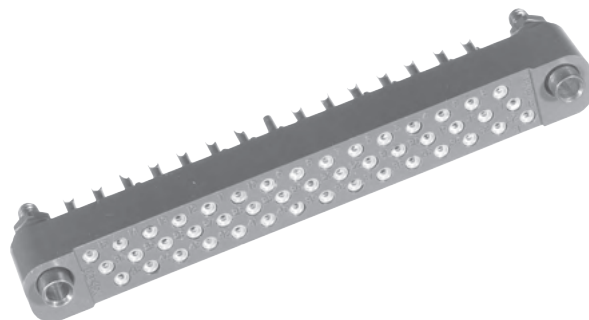


**PLUG**

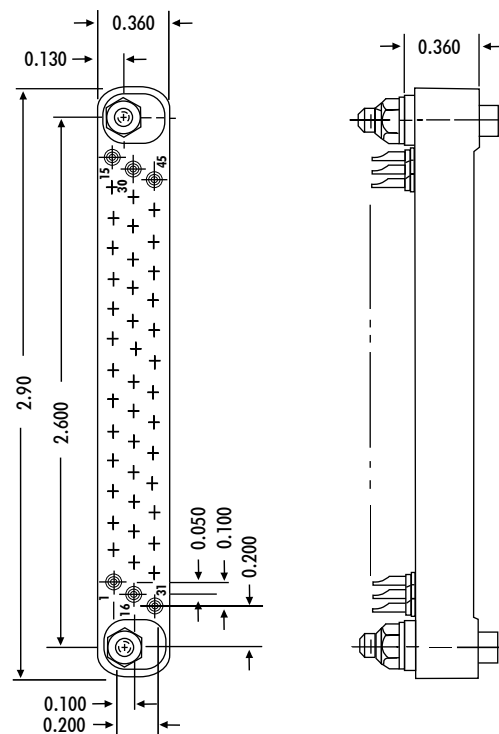
CONTACT DATA		MOUNTING DATA							
		BOARD THICKNESS	NO. 4-40		NO. 4-40		0.109D.		
PLUG		X	A	INSERT	B	STUD	C	RIVET	
			.06	.09	.14	DEP 37M - 53JV2	.22	DEP 37M - 3JV2	.09
		.09	.14	.14	DEP 37M - 519JV2	.25	DEP 37M - 19JV2	.12	DEP 37M - 42JV2
		.12	.16	.14	DEP 37M - 54JV2	.31	DEP 37M - 4JV2	.16	DEP 37M - 43JV2

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 27

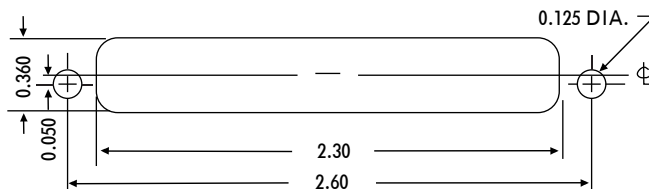
# DEP 45 SERIES



MOUNTING DATA							CONTACT DATA	
RIVET		STUD		GUIDE		DIMENSION		
C		B		A	X			
				DEP 45K-1JV2	.25	.18	.06	 SOLDER CUP
				DEP 45K-141JV2	.31	.18	.09	
				DEP 45K-141JV2	.31	.18	.12	
				DEP 45K-4JV2	.25	.27	.06	 STRAIGHT PIN
				DEP 45K-8JV2	.31	.27	.09	
				DEP 45K-8JV2	.31	.27	.12	
		DEP 45K-593JV2	.22				.11	 RIGHT ANGLE
							.09	
							.12	
				DEP 45K-122JV2	.25	—	.06	 TURRET
				DEP 45K-222JV2	.31	—	.09	
				DEP 45K-222JV2	.31	—	.12	
				DEP 45K-433JV2	.25	.57	.06	 WIRE WRAP
				DEP 45K-438JV2	.31	.57	.09	
				DEP 45K-438JV2	.31	.57	.12	



RECEPTACLE

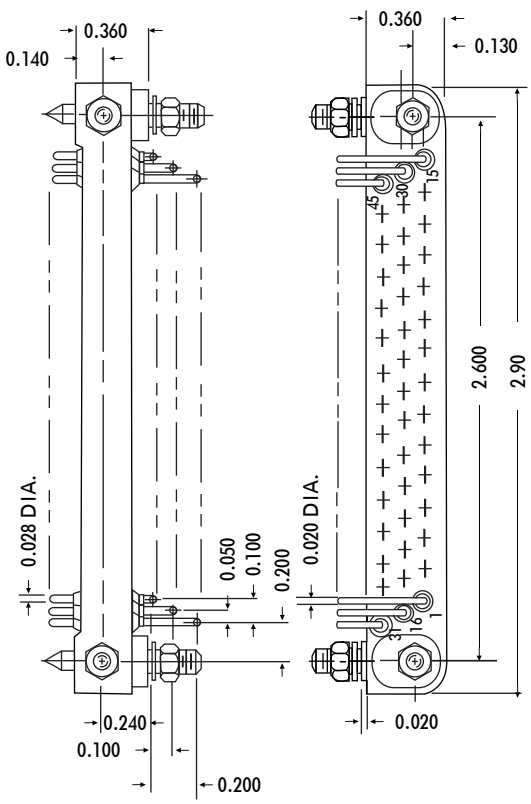
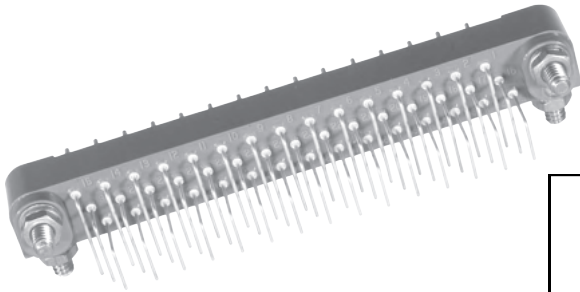


RECOMMENDED CHASSIS CUT-OUT

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 18



# DEP 45 SERIES



CONTACT DATA		MOUNTING DATA							
		PANEL THICKNESS DIMENSION	NO. 4-40		NO. 4-40		NO. 4-40		NO. 4-40
X	A		GUIDE	B	STUD	C	RIVET	D	INSERT
RIGHT ANGLE	.06	.13		.22	DEP 45P - 3JV2	.09	DEP 45P - 41JV2	.14	DEP 45P - 53JV2
	.09	.13		.25	DEP 45P - 6JV2	.12	DEP 45P - 42JV2	.14	DEP 45P - 53JV2
	.12	.18		.31	DEP 45P - 107JV2	.16	DEP 45P - 43JV2	.14	DEP 45P - 57JV2
PLUG STRAIGHT	.06								
	.09								
	.12	.38	.31	DEP 45P - 914JV2					
SOLDER CUP	.06								
	.09								
	.12								

## SPECIFICATIONS

### ELECTRICAL

- Current Rating . . . . . 5 amperes
- Solder Cup Accomodation . . . . . One #24 A.W.G. Wire
- Dielectric Withstanding Voltage
- Contact to Contact Sea Level . . . . . 1000 Volts RMS Minimum
- Contact to Contact 70,000 Feet . . . . . 300 Volts RMS Minimum

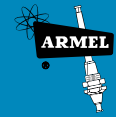
### MECHANICAL

- Contact Diameter . . . . . 0.028 inch
- Creepage Between Contacts . . . . . 0.06 inch Minimum
- Air Space Between Contacts . . . . . 0.06 inch Minimum
- Polarization . . . . . Guide pins and contact arrangement  
Keying Guide Pins Available (See Page 29)
- Socket Contacts . . . . . Spring Tempered, Phosphor Bronze, Gold Plated  
(0.00005 inch) per MIL-G-45204, Type II, Class 1  
over Copper Plate
- Pin Contacts . . . . . Phosphor Bronze, Gold Plated (0.00005 inch) per  
MIL-G-45204, Type II Class 1 over Copper Plate
- Guide Pins, Sockets and Hardware . . . . . Stainless Steel, passivated
- Mounting Studs and Hardware . . . . . Stainless Steel, passivated
- Rivets . . . . . Brass, Hot Tin Dipped
- Shell ( See Page PC-21 ) . . . . . Die Cast Aluminum, Cadmium Plated  
With Supplementary Chromate Finish
- Floating Eyelets ( PC-21 ) . . . . . Stainless Steel, Passivated
- Insulation Material . . . . . Diallyl Phthalate, Glass filled per MIL-M-14,  
Type GDI-30F
- Temperature Range . . . . . -65? C to + 125? C

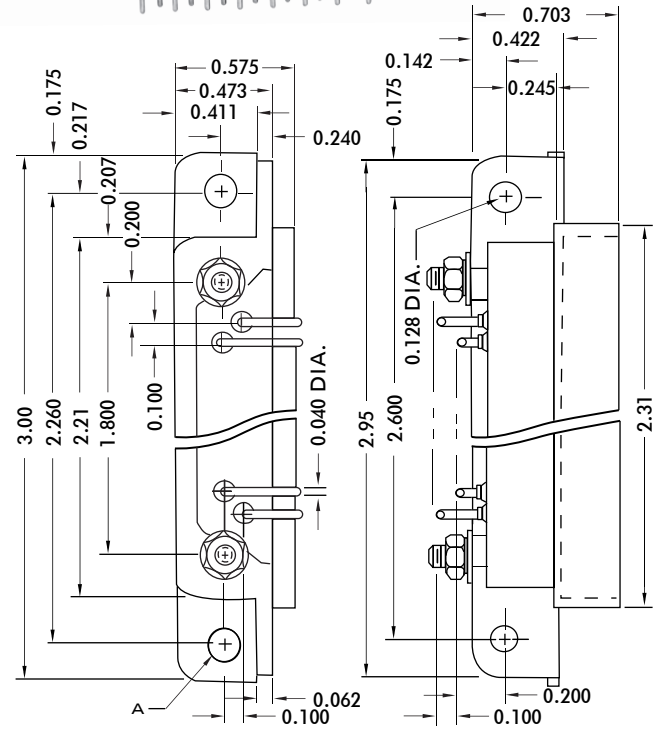
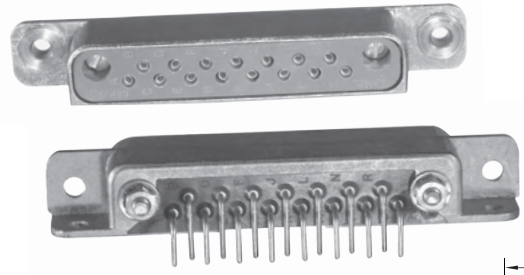
### APPROXIMATE WEIGHT

- DEP45 ( pin ) . . . . . 1 oz.
- DEP45 ( socket ) . . . . . 1 oz.

# DEP 15 SHELLS



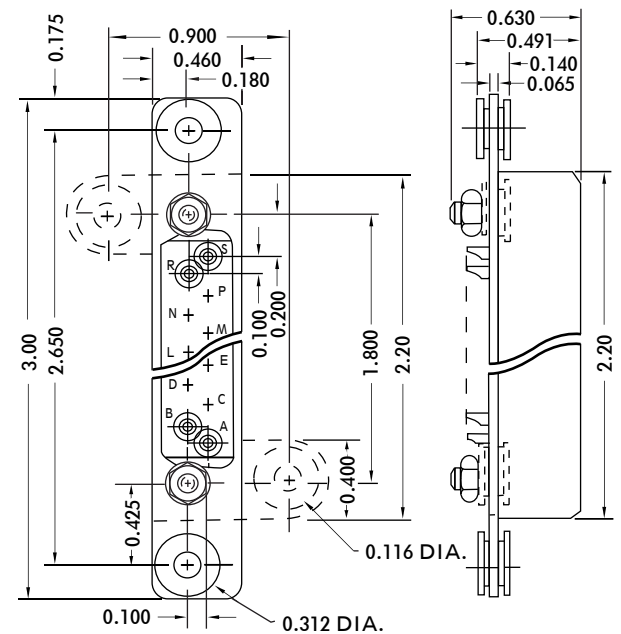
MOUNTING DATA			DIMENSION		CONTACT DATA
"A" DIA.	"A" DIA.	"A" DIA.	X	PANEL THICKNESS	
					 <b>RIGHT ANGLE</b>
DEP15PHA-3JV2	DEP15PHA-2JV2	DEP15PHA-1JV2	.15	.06	
DEP15PHA-3JV2	DEP15PHA-2JV2	DEP15PHA-1JV2	.15	.09	
DEP15PHA-6JV2	DEP15PHA-5JV2	DEP15PHA-4JV2	.21	.12	 <b>STRAIGHT</b>
DEP15PHA-23JV2	DEP15PHA-22JV2	DEP15PHA-21JV2	.07	—	
DEP15PHA-26JV2	DEP15PHA-25JV2	DEP15PHA-24JV2	.17	—	
DEP15PHA-29JV2	DEP15PHA-28JV2	DEP15PHA-27JV2	.21	—	 <b>SOLDER CUP</b>
DEP15PHA-94JV2	DEP15PHA-93JV2	DEP15PHA-92JV2	.16	—	
DEP15PHA-94JV2	DEP15PHA-93JV2	DEP15PHA-92JV2	.16	—	
DEP15PHA-94JV2	DEP15PHA-93JV2	DEP15PHA-92JV2	.16	—	



MOUNTING DATA			DIMENSION		CONTACT DATA
			X		
					 <b>SOLDER CUP</b>
DEP15SSHA-1JV2	DEP15SHA-1JV2		.11		
DEP15SSHA-3JV2	DEP15SHA-3JV2		.17		 <b>EYELET</b>
DEP15SSHA-4JV2	DEP15SHA-4JV2		.14		
DEP15SSHA-28JV2	DEP15SHA-28JV2		.17		 <b>STRAIGHT</b>
DEP15SSHA-13JV2	DEP15SHA-13JV2		.72		
					 <b>WIRE WRAP</b>

PLUG

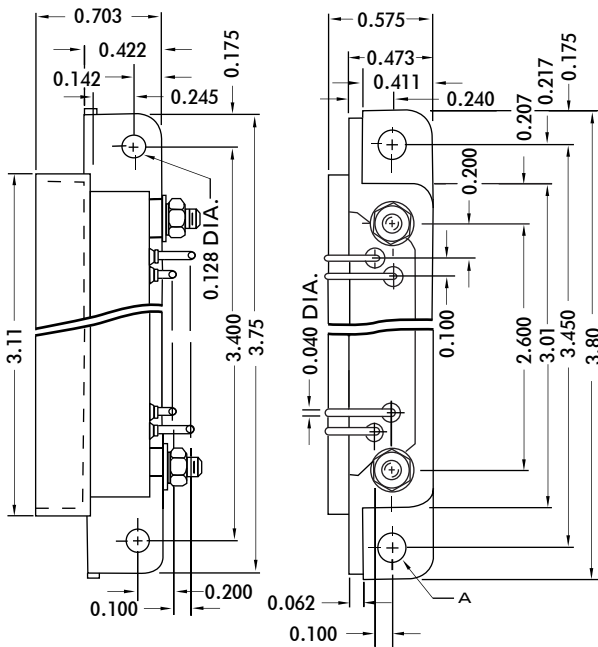
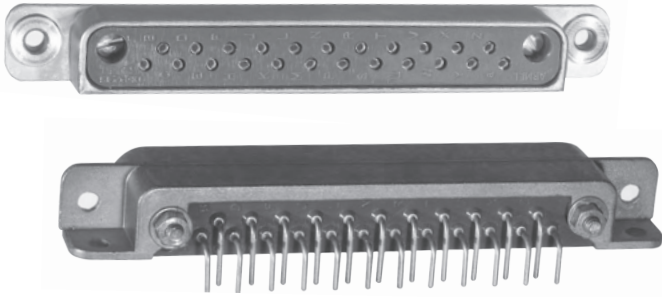
MOUNTING DATA			DIMENSION		CONTACT DATA
			X		
					 <b>SOLDER CUP</b>
DEP15KSHA-1JV2	DEP15KHA-1JV2		.11		
DEP15KSHA-3JV2	DEP15KHA-3JV2		.17		 <b>EYELET</b>
DEP15KSHA-4JV2	DEP15KHA-4JV2		.14		
					 <b>STRAIGHT</b>



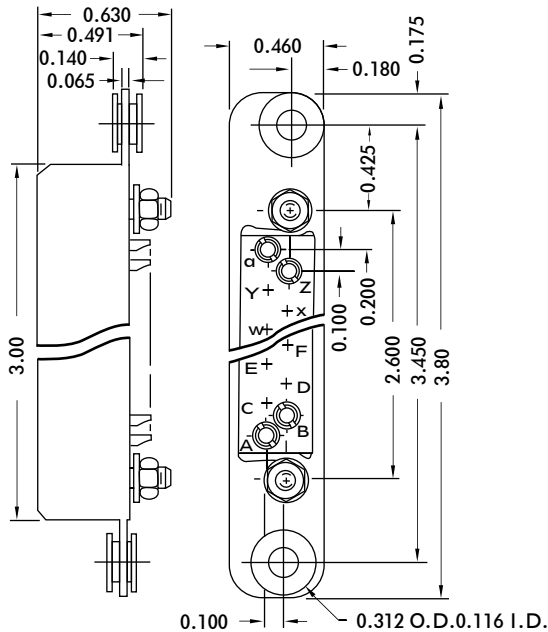
RECEPTACLE

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 27





### PLUG



### RECEPTACLE

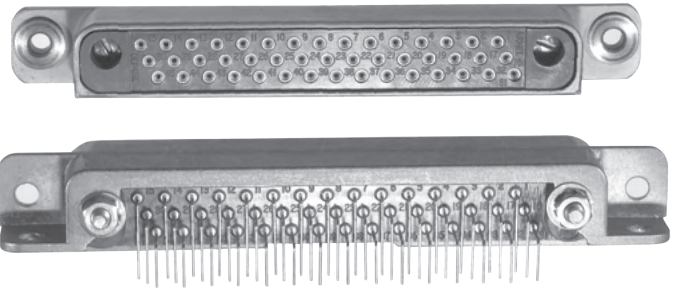
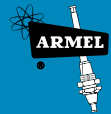
0.100 → 0.312 O.D. 0.116 I.D.

CONTACT DATA		MOUNTING DATA			
		PANEL THICKNESS	DIMENSION		
RIGHT ANGLE	X	"A" DIA. .12	"A" DIA. .16	"A" DIA. .21	
	.06	.15	DEP23PHA-1JV2	DEP23PHA-2JV2	
	.09	.15	DEP23PHA-1JV2	DEP23PHA-2JV2	
STRAIGHT	.12	.21	DEP23PHA-4JV2		
	—	.07	DEP23PHA-21JV2	DEP23PHA-22JV2	
	—	.17	DEP23PHA-24JV2	DEP23PHA-25JV2	
SOLDER CUP	—	.21	DEP23PHA-27JV2	DEP23PHA-28JV2	
	—	.16	DEP23PHA-92JV2	DEP23PHA-93JV2	
	—	.16	DEP23PHA-92JV2	DEP23PHA-93JV2	

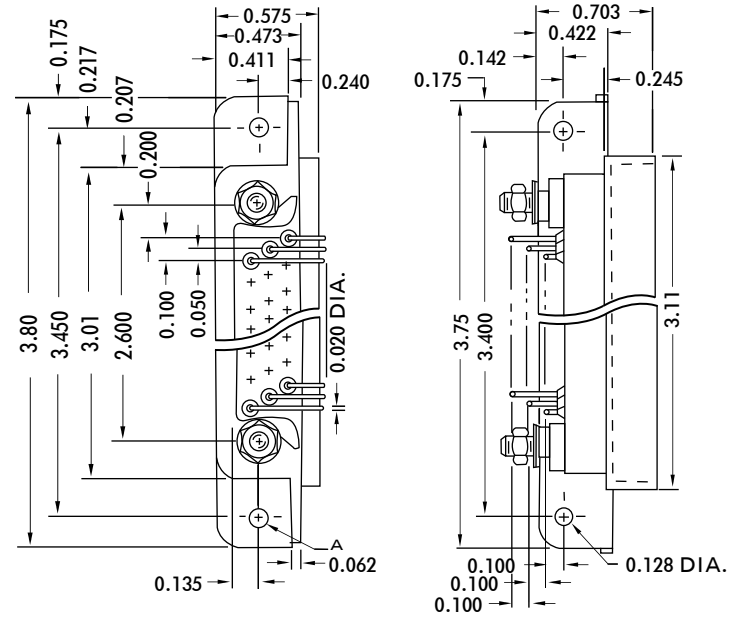
CONTACT DATA		MOUNTING DATA	
		DIMENSION	
SOLDER CUP	X	OPEN ENTRY CONTACT	CLOSED ENTRY CONTACT
	.11	DEP23SHA-1JV2	DEP23KHA-1JV2
TURRET	.17	DEP23SHA-2JV2	
EYELET	.17	DEP23SHA-3JV2	DEP23KHA-3JV2
STRAIGHT	.14	DEP23SHA-4JV2	DEP23KHA-8JV2
	.17	DEP23SHA-28JV2	
WIRE WRAP	0.045 SQ.		
	.72	DEP23SHA-13JV2	

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 27

# DEP 45 SHELLS

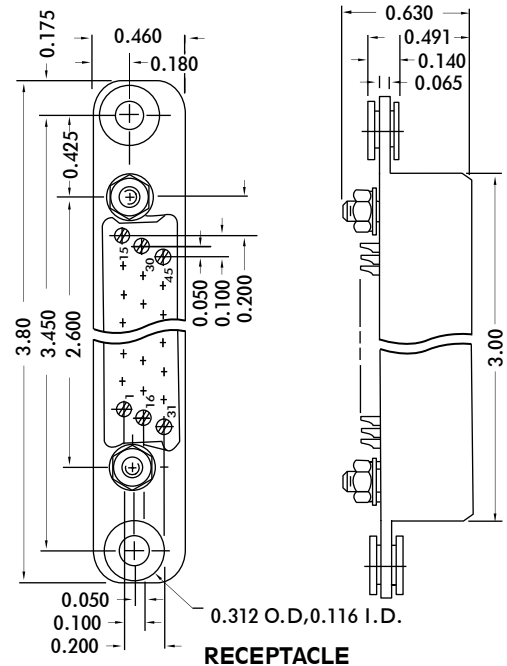


MOUNTING DATA			DIMENSION	PANEL THICKNESS	CONTACT DATA		
					X		
"A" DIA. .21	"A" DIA. .16	"A" DIA. .12					
		DEP 45PHA -3JV2	.13	.06			
		DEP 45PHA -3JV2	.13	.09			
		DEP 45PHA -7JV2	.20	.12		<b>RIGHT ANGLE</b>	
							<b>PLUG</b>
						<b>STRAIGHT</b>	
							<b>SOLDER CUP</b>



**PLUG**

MOUNTING DATA		DIMENSION	CONTACT DATA	
CLOSED ENTRY CONTACT	OPEN ENTRY CONTACT		X	
DEP 45KHA -91JV2		.11		<b>SOLDER CUP</b>
				<b>TURRET</b>
				<b>EYELET</b>
				<b>STRAIGHT</b>
				<b>WIRE WRAP</b>

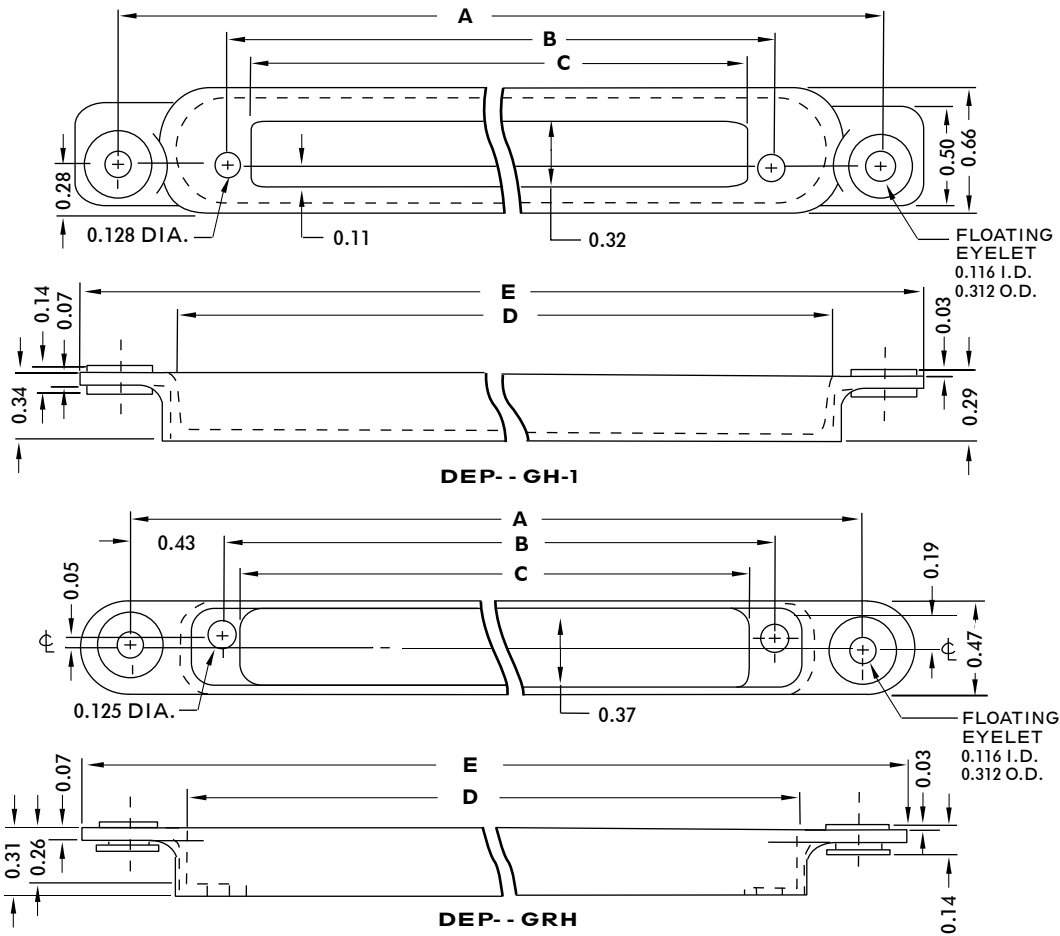


**RECEPTACLE**

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 27

**DESIGNED FOR THE . . .**  
 DEP 11, 15, 23, 37 and 45 Series Receptacles,  
 thus allowing for additional protection and float  
 when chassis mounted.

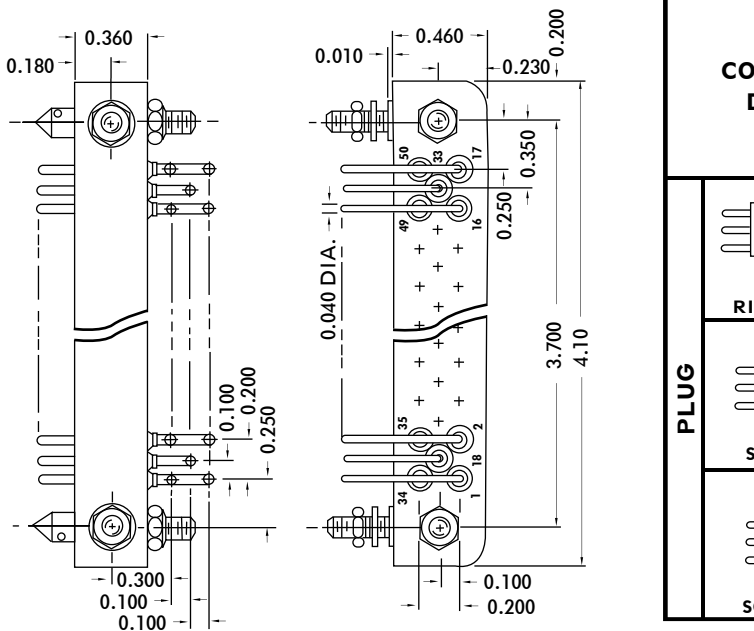
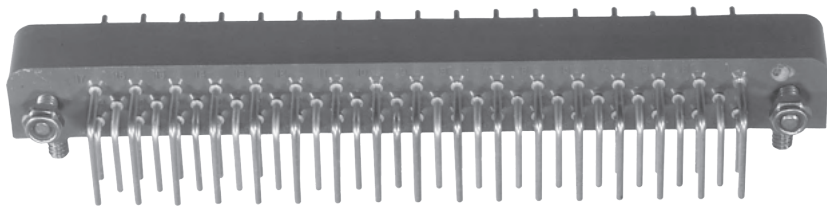
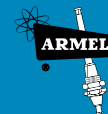
**THE SHELLS . . .**  
 are assembled to the back of a receptacle by  
 employing the same hardware and or guides  
 normally supplied with the connector.



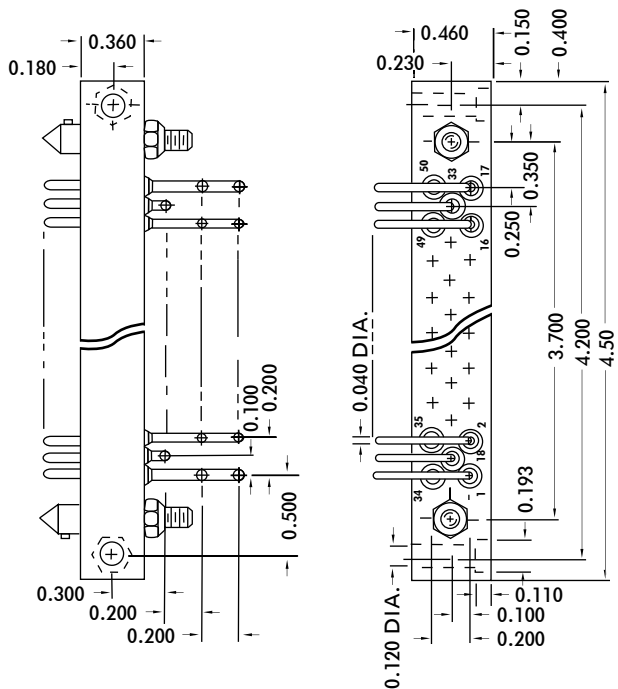
TYPE	"A"	"B"	"C"	"D"	"E"
DEP11GH-1	2.46	1.40	1.20	1.92	2.86
DEP15GH-1	2.86	1.80	1.60	2.32	3.26
DEP23GH-1	3.66	2.60	2.40	3.12	4.06
DEP37GH-1	5.06	4.00	3.80	4.52	5.46
DEP11GRH	2.26	1.40	1.20	1.71	2.73
DEP15GRH	2.66	1.80	1.60	2.11	3.13
DEP23GRH	3.46	2.60	2.40	2.91	3.93
DEP37GRH	4.86	4.00	3.80	4.31	5.33

**MATERIAL:** Aluminum per QQ-A-591  
**FINISH:** Cadmium plated per QQ-P-416,  
 Type II, Class 2

# LP 50 SERIES



PLUG



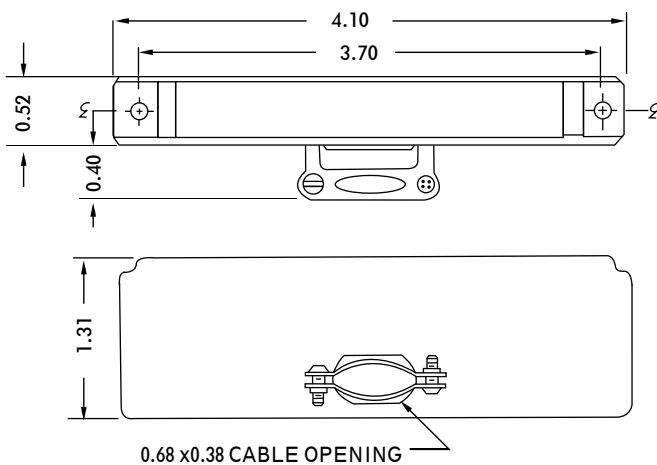
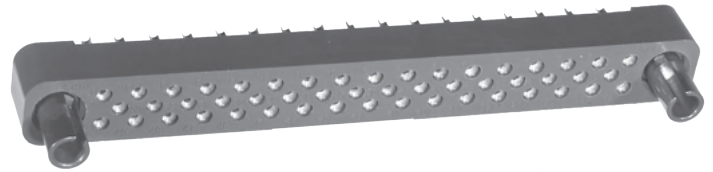
PLUG

CONTACT DATA		MOUNTING DATA						
		PANEL THICKNESS		No. 4-40		No. 4-40		No. 4-40
RIGHT ANGLE	DIMENSION	X	A	GUIDE	B	STUD	C	RIVET
	PLUG	.06	.15	.25	LP50P-859JV2	.25	LP50P-857JV2	.16
.09		.15	.25	LP50P-859JV2	.25	LP50P-857JV2	.16	LP50P-861JV2
.12		.15	.25	LP50P-859JV2	.25	LP50P-857JV2	.16	LP50P-861JV2
STRAIGHT	.06	.20	.25	LP50P-592JV2	.25	LP50P-692JV2	.16	LP50P-992JV2
	.09	.23	.25	LP50P-593JV2	.25	LP50P-693JV2	.16	LP50P-993JV2
	.12	.23	.25	LP50P-593JV2	.25	LP50P-693JV2	.16	LP50P-993JV2
SOLDER CUP	.06	—	.25	LP50P-792JV2	.25	LP50P-691JV2	.16	LP50P-991JV2
	.09	—	.25	LP50P-792JV2	.25	LP50P-691JV2	.16	LP50P-991JV2
	.12	—	.25	LP50P-792JV2	.25	LP50P-691JV2	.16	LP50P-991JV2

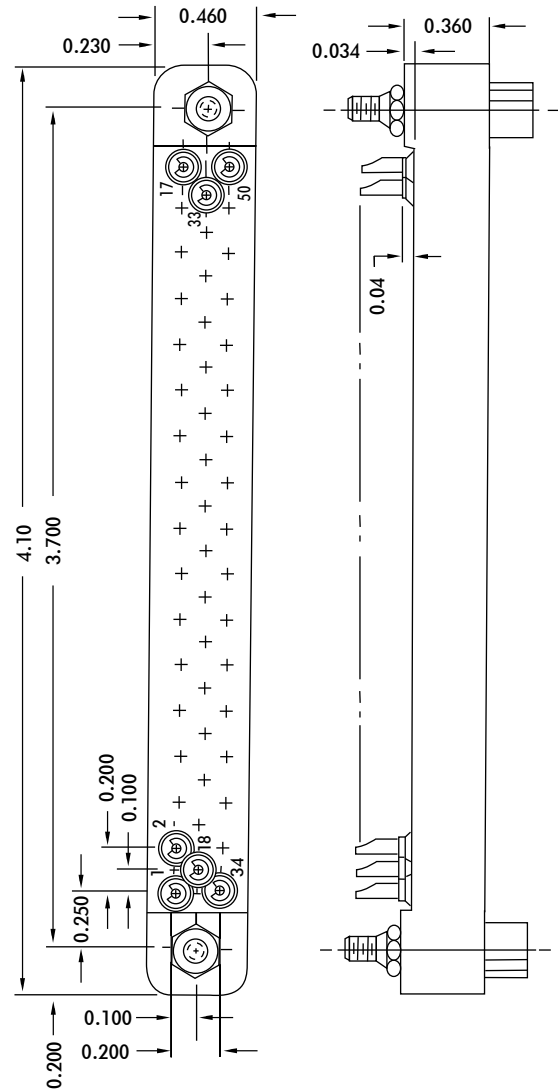
CONTACT DATA		MOUNTING DATA				
		PANEL THICKNESS		No. 4-40		
RIGHT ANGLE	DIMENSION	X	A	GUIDE	A	THRU HOLE
	PLUG	.06	.15			.25
.09		.15			.25	LP50P-6JV2
.12		.21			.25	LP50P-1JV2
STRAIGHT	.06	.20	.25	LP50P-92JV2	.25	LP50P-92JV2
	.09	.23	.25	LP50P-93JV2	.25	LP50P-93JV2
	.12	.23	.25	LP50P-93JV2	.25	LP50P-93JV2
SOLDER CUP	.06	—	.25	LP50P-91JV2	.25	LP50P-91JV2
	.09	—	.25	LP50P-91JV2	.25	LP50P-91JV2
	.12	—	.25	LP50P-91JV2	.25	LP50P-91JV2

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 27

MOUNTING DATA				DIMENSION	PANEL THICKNESS	CONTACT DATA
CLOSED ENTRY CONTACT	OPEN ENTRY CONTACT	A	X			
LP50K-201JV2	LP50S-201JV2	.25	.17	.06	.12	 SOLDER CUP
LP50K-201JV2	LP50S-201JV2	.25	.17	.09		
				.12	.12	 TURRET
	LP50S-6JV2	.25	.22	.06		
	LP50S-6JV2	.25	.22	.09	.12	 EYELET
LP50K-3JV2	LP50S-203JV2	.25	.24	.06		
LP50K-3JV2	LP50S-203JV2	.25	.24	.09	.12	 STRAIGHT
				.12		
LP50K-4JV2	LP50S-34JV2	.25	.11	.06	.12	 WIRE WRAP
LP50K-244JV2	LP50S-8JV2	.25	.19	.09		
				.12	.12	 WIRE WRAP
LP50K-277JV2				.06		
LP50K-277JV2				.09	.12	 WIRE WRAP
				.12		



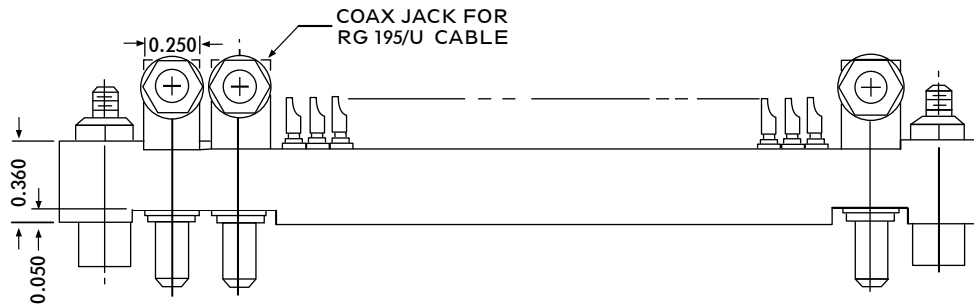
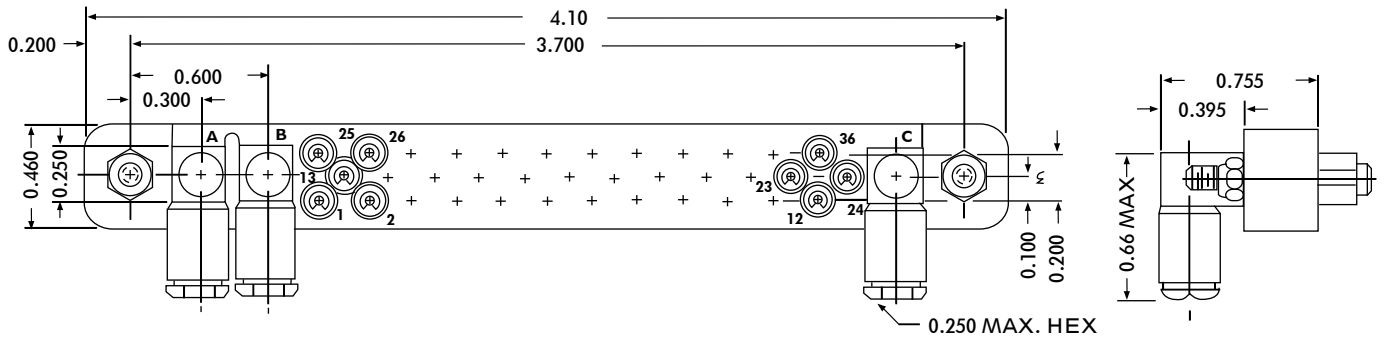
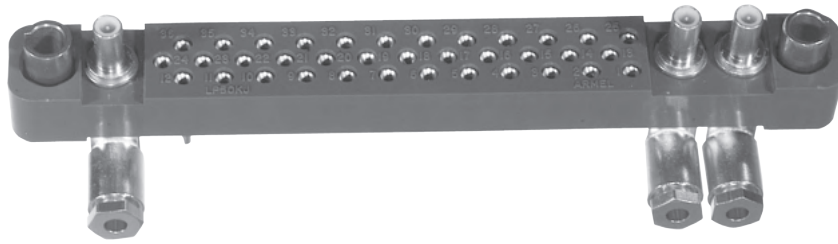
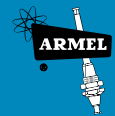
Hood No. LP50H3  
Available with Locking Device



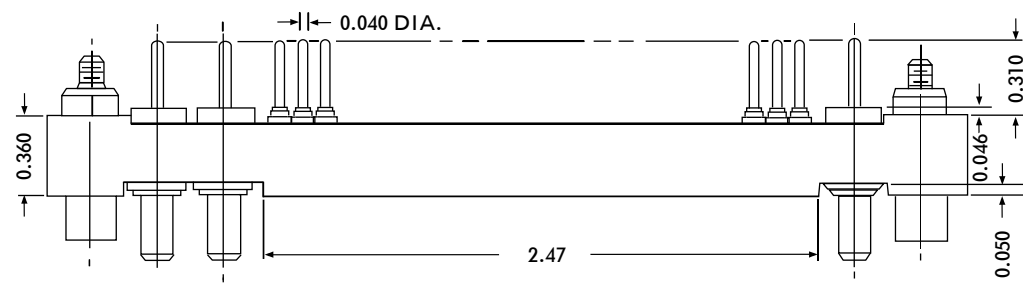
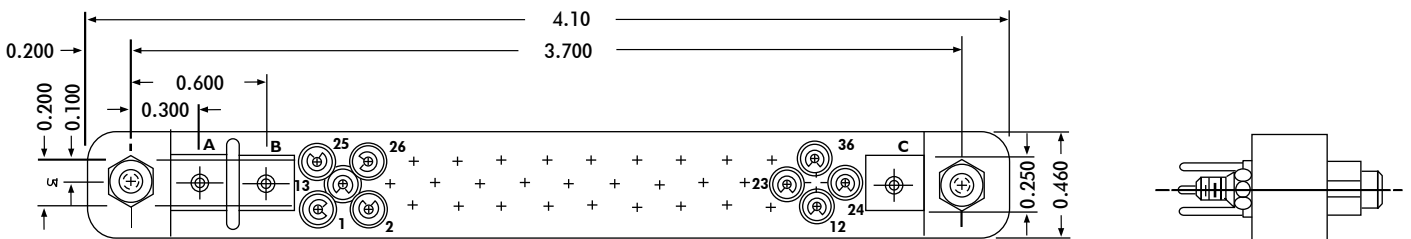
RECEPTACLE

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 27

# LP 50 COAX

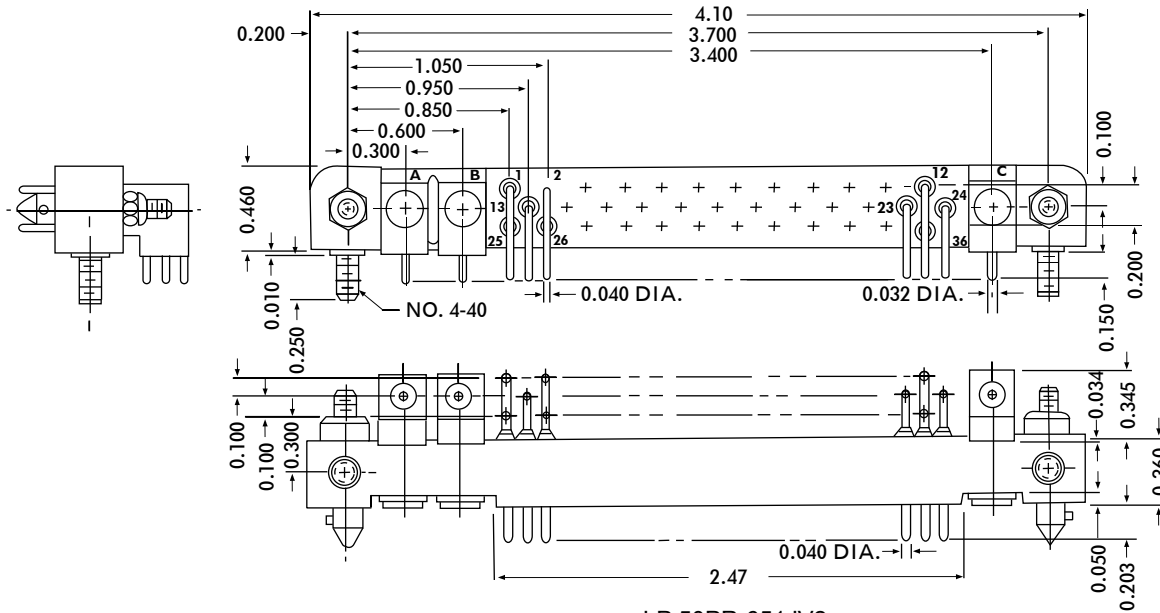
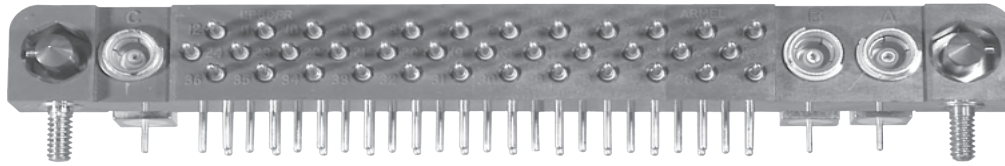


LP 50KJ-671JV2



LP 50KJ-244JV2

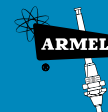
FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 27



LP 50PR-651JV2

## SPECIFICATIONS

Coaxial Contact Assembly . . . . .	( MIL-C-39012, Class II )
Impedance . . . . .	50 ohms, nominal
Dielectric Withstanding Voltage . . . . .	
Contact to Contact Sea Level . . . . .	1200 volts RMS Minimum
Contact to Contact 70,000 Feet . . . . .	300 volts RMS Minimum
Contact Diameter . . . . .	.020 inch
Contacts . . . . .	Beryllium Copper
Shell . . . . .	Brass
Insulation Material . . . . .	Polytetrafluoroethylene, per MIL-P-19468
Plating for Coaxial Connectors . . . . .	Gold Plate ( .00005/.00007 ) per MIL-G-45204, Type I, Class 1, Grade C over ( .000005/.000010 ) gold plate per MIL-G-45204, grade A or B over ( .0001/.000125 ) copper plate per MIL-C-14550, Class 4 Center conductor gold plate, (.0001/.000125 ) per MIL-G-45204, Type I, Class 2, Grade C over ( .000005/.000010 ) gold plate per MIL-G-45204, Grade A or B over ( .0001/.000125 ) copper plate per MIL-C-14550, Class 4.
Power Contacts, Hardware and Insulation Material . . . . .	See LP Specifications on Page 27
Temperature Range . . . . .	-65° C to +125° C
Approximate Weight . . . . .	.7 oz.



## SPECIFICATIONS

Listed on this page are the general specifications applicable to the illustrated DEP 7, 11, 15, 23, 36, 37 and LP 50 Series printed circuit connectors.

### ELECTRICAL

Current Rating . . . . .	7.5 amperes
Terminal Accomodation	
Solder Cup . . . . .	One #20 AWG Wire
Eyelet and Turret . . . . .	Two #20 AWG or Three #22 AWG Wire
Dielectric Withstanding Voltage	
Contact to Contact, Sea Level . . . . .	1500 Volts RMS Minimum
Contact to Contact, 70,000 Ft. . . . .	375 Volts RMS Minimum

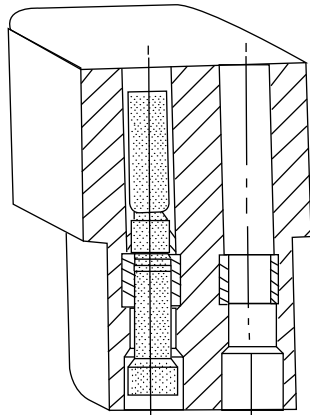
### MECHANICAL

Contact Diameter . . . . .	.040 Inch
Creepage Between Contacts . . . . .	5/64 Inch Minimum
Air Space Between Contacts . . . . .	3/64 Inch Minimum
Socket Contacts . . . . .	Spring Tempered, Phosphor Bronze or Berylium Copper Gold Plated ( 0.00005 inch ) per MIL-G-45204, Type II, Class 1 over Copper Strike
Pin Contacts . . . . .	Phosphor Bronze or Brass, Gold Plated ( 0.00005 inch ) per MIL-G-45204, Type II, Class 1 over Copper Strike
Guide Pins, Sockets & Hardware	
DEP Series . . . . .	Brass, Cadmium Plated with Supplementary Chromate Finish or Stainless Steel Passivated
LP Series . . . . .	Stainless Steel, Passivated
Mounting Studs and Hardware . . . . .	Brass, Nickel Plated
Mounting Rivets . . . . .	Brass, Hot Tin Dipped
Shell . . . . .	Die Cast Aluminum, Cadmium Plated with Supplementary Chromate Finish
Floating Eyelets . . . . .	Stainless Steel, Passivated
Insulation Material	
DEP Series . . . . .	Suffix "J" ( i.e. DEP23P-3JV2 ) Diallyl Phthalate, Glass-Fiber Filled, per MIL-M-14, Type GDI-30F Suffix "H" ( i.e. DEP23P-3HV2 ) Diallyl Phthalate, Orlon Filled, per MIL-M-14, Type SDI-5 Suffix "L" ( i.e. DEP23P-3LV2 ) Diallyl Phthalate, Glass-Fiber Filled per MIL-M-14, Type SDG-F

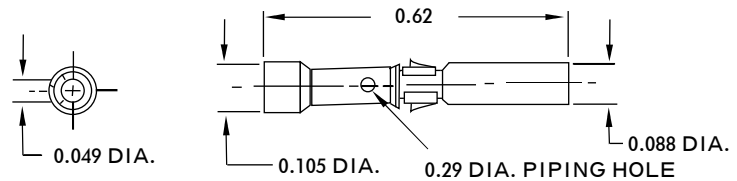
NOTE: DEP-M Type plugs are only available in "J" material.  
DEP-P Type plugs and all receptacles are available in "J" or "H" material.  
For Color and material compatibility when ordering plugs and receptacles we recommend one type of insulation material be specified.

LP Series . . . . .	Diallyl Phthalate, Glass-Fiber Filled, per MIL-M-14, Type GDI-30F
Temperature Range . . . . .	-65° C +125° C
APPROXIMATE WEIGHT	
DEP 7 ( pin ) . . . . .	.44 oz. . . . . DEP 7 ( socket ) . . . . . .26 oz. . . . .
DEP 11 ( pin ) . . . . .	.51 oz. . . . . DEP 11 ( socket ) . . . . . .40 oz. . . . .
DEP 15 ( pin ) . . . . .	.87 oz. . . . . DEP 15 ( socket ) . . . . . .67 oz. . . . .
DEP 15 ( pin-shell ) . . . . .	.63 oz. . . . . DEP 15 ( socket-shell ) . . . . . .52 oz. . . . .
DEP 23 ( pin ) . . . . .	1.10 oz. . . . . DEP 23 ( socket ) . . . . . .85 oz. . . . .
DEP 23 ( pin-shell ) . . . . .	.43 oz. . . . . DEP 23 ( socket-shell ) . . . . . .45 oz. . . . .
DEP 36 ( pin ) . . . . .	.94 oz. . . . . DEP 36 ( socket ) . . . . . .70 oz. . . . .
DEP 37 ( pin ) . . . . .	1.80 oz. . . . . DEP 37 ( socket ) . . . . . 1.30 oz. . . . .
LP 50 ( pin ) . . . . .	LP 50 ( socket ) . . . . .

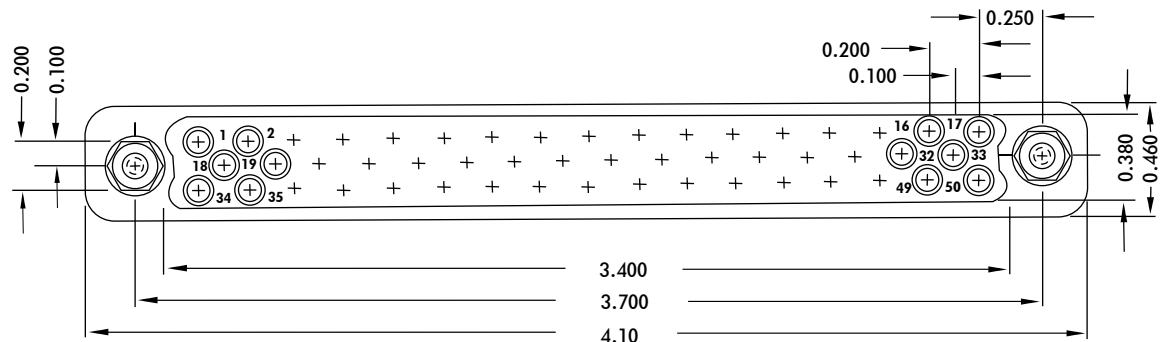
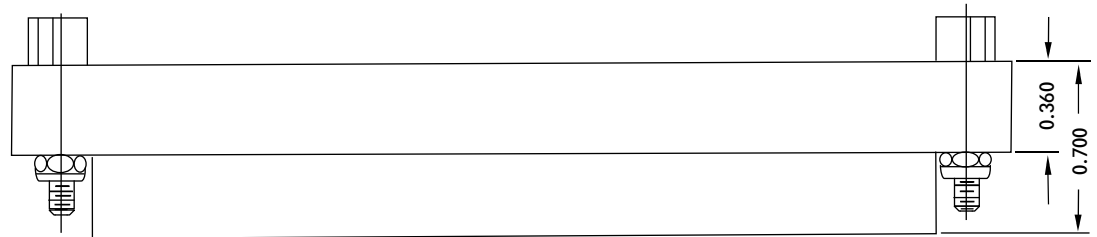
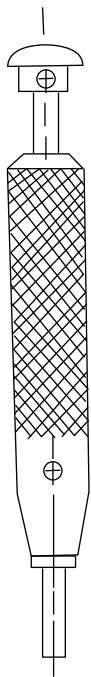




Crimp  
Removable Contacts



Closed Entry Contact  
No. 1007003-1



LP 50CK-270J

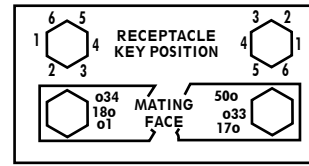
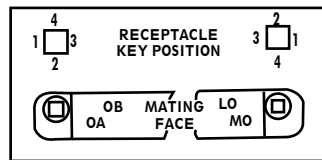
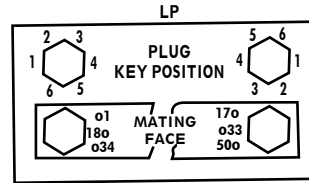
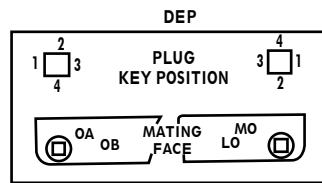
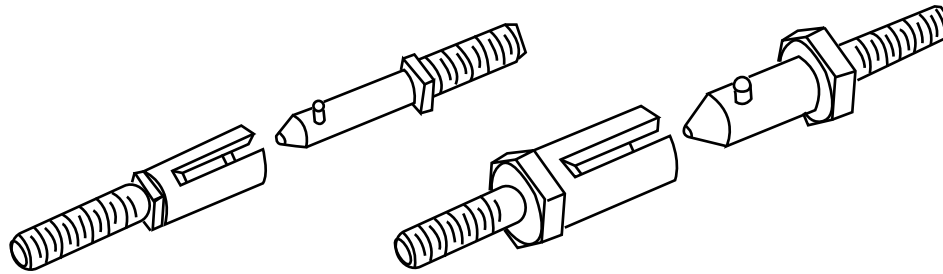
Removing Tool  
No. T9066-1

## SPECIFICATIONS

Current Rating . . . . .	7.5 amperes
Contact Size . . . . .	0.040 Inch
Terminal Accomodation . . . . .	One No. 18, One No. 20, One or Two No. 22, Two or Three No. 24 AWG Wire
Contact Material & Plating . . . . .	Phosphor, Bronze, Gold Plated ( Sleeve-Brass ) (0.000050 inch ) per MIL-G-45204, Type II, Class I, Over Copper Plate
Contact Retaining Clip . . . . .	Stainless Steel, Passivated
Guide Sockets & Hardware . . . . .	Stainless Steel, Passivated
Insulation Material . . . . .	Diallyl Phthalate, Glass-Fiber Filled per MIL-M-14, Type GDI-30F
Crimping Tool . . . . .	No. MS 3191A
Positioner . . . . .	No. 612192
Insertion Tool . . . . .	Not required

## KEYED PILOT ARRANGEMENTS

64 (DEP Series) Keying Arrangements  
 144 (LP Series) can be obtained by positioning  
 keyed Pilot Pin and Sockets in their  
 (DEP Square) — Bases  
 (LP Hexagonal)



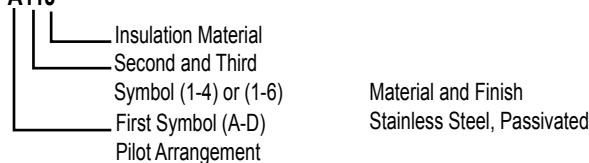
### FIRST SYMBOL:

- A — Plug, 2 Pilot Pins  
 Receptacle, 2 Pilot Sockets
- B — Plug, 2 Pilot Sockets  
 Receptacle, 2 Pilot Pins
- C — Plug, 1 Pilot Pin Adjacent to Contact A, or lowest number Contact  
 1 Pilot Socket Adjacent to highest letter, or number Contact  
 Receptacle, 1 Pilot Socket, Adjacent to Contact A, or lowest number Contact  
 1 Pilot Pin Adjacent to highest letter, or number Contact
- D — Plug, 1 Pilot Socket, Adjacent to Contact A, or lowest number Contact  
 1 Pilot Pin Adjacent to highest letter, or number Contact  
 Receptacle, 1 Pilot Pin Adjacent to Contact A, or lowest number Contact  
 1 Pilot Socket Adjacent to highest letter, or number Contact

**SECOND SYMBOL:** Indicates keying position of Pilot Adjacent to lowest letter or numbered Contact

**THIRD SYMBOL:** Indicates keying position of Pilot Adjacent to highest letter or numbered Contact

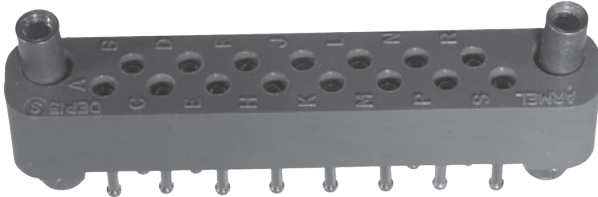
**DEP23P-1-A11J**  
**LP50P-1-A11J**



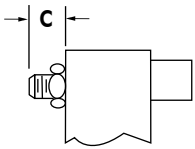
**NOTE:** Mating Connectors will have the same keying code  
 Keying arrangements can also be adapted to the CP Series



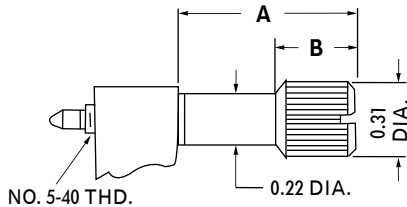
**DEP 15P-3-15JV2**



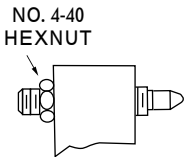
**DEP 15S-1-02JV2**



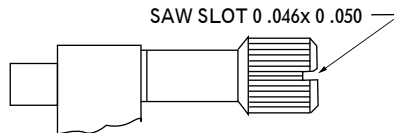
**FIG.1**



**FIG.3**



**FIG.2**



**FIG.4**

LOCKING DEVICE - PLUG OR RECEPTACLE								
PART NO.	ROTATING		NON-ROTATING		FIG. NO.	DIMENSION		
	PIN	SOCKET	PIN	SOCKET		?A?	?B?	?C?
-07				2	1			.31
-08				2	1			.16
-12	2				3	.76	.33	
-14	2				3	.61	.26	
-15	2				3	.44	.16	
-16	2				3	.36	.16	
-25			1	1	1-2			.16
-28			1	1	1-2			.31
-31	1	1			3-4	.76	.33	
-33	1	1			3-4	.61	.26	
-34	1	1			3-4	.44	.16	
-35	1	1			3-4	.39	.31	
-36	1	1			3-4	.36	.16	
-45			2		2			.31
-46			2		2			.16
-52		2			4	.76	.33	
-54		2			4	.61	.26	
-55		2			4	.44	.16	
-56		2			4	.36	.16	
-65			1	1	1-2			.16
-68			1	1	1-2			.31
-71	1	1			3-4	.76	.33	
-73	1	1			3-4	.61	.26	
-74	1	1			3-4	.44	.16	
-75	1	1			3-4	.39	.31	
-76	1	1			3-4	.36	.16	

\* PILOT PIN ADJACENT TO CONTACT "A".  
 \*\* PILOT SOCKET ADJACENT TO CONTACT "A".  
 . MAY BE USED WITH CABLE BRACKETS DETAILED ON PAGE 36

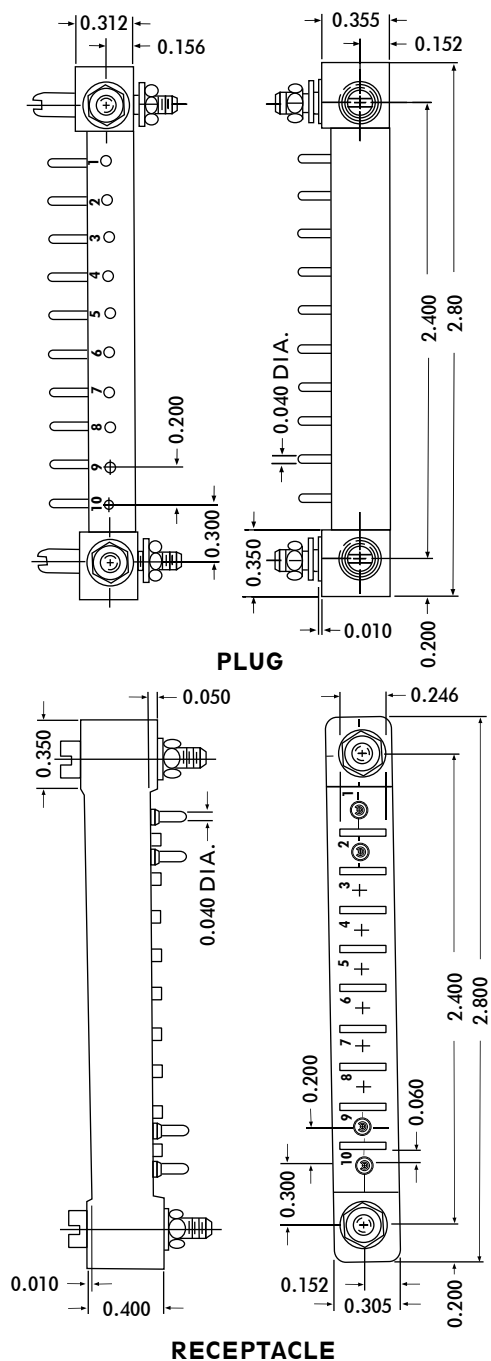
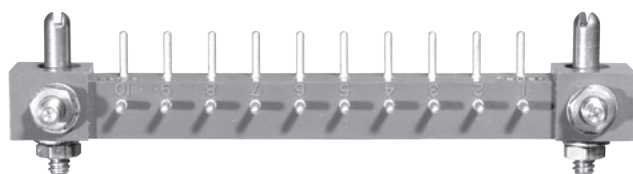
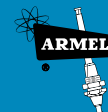
**LOCKING DEVICE:**

Positive Locking Device Hardware prevents disengagement during vibration and shock and avoids accidental disconnect.

**MATERIAL AND FINISH:**

**LOCKING DEVICE:** Stainless Steel, Passivated  
 HEXNUTS, SPLIT LOCKWASHERS & FLAT WASHERS stainless steel, passivated.

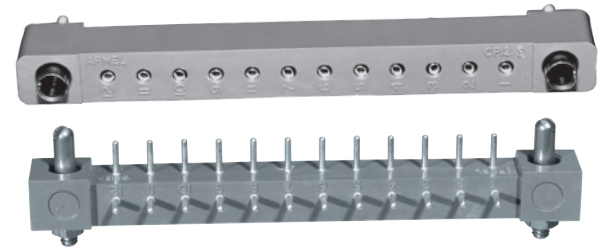
# CP 10 SERIES



CONTACT DATA		MOUNTING DATA						
		PANEL THICKNESS		DIMENSION		No. 4-40		
PLUG	X	A	INSERT	B	STUD	C	RIVET	
		.06	.12		.23	CP10P-3JV2		
		.09						
	.12							

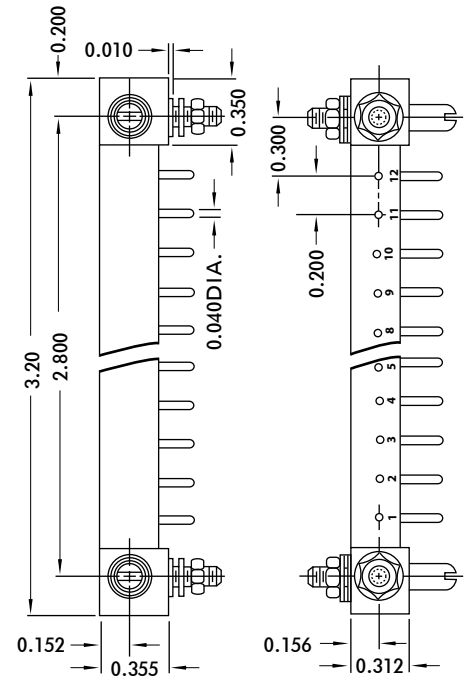
CONTACT DATA		MOUNTING DATA							
		PANEL THICKNESS		DIMENSION		No. 4-40			
RECEPTACLE	OPEN ENTRY	X	A	GUIDE	B	STUD	C	RIVET	
		SOLDER CUP							
		TURRET							
		EYELET							
		STRAIGHT PIN	.06						
	.09								
	.12	.13	.28	CP10S-3JV2					

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 33

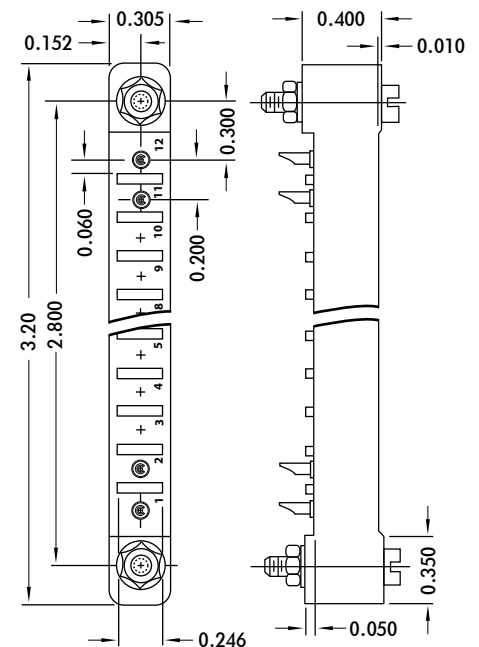


MOUNTING DATA						CONTACT DATA	
			DIMENSION		PANEL THICKNESS		<b>PLUG</b>
RIVET	C	STUD	B	GUIDE			
				CP12P-5JV2	.19 .12	.06	
						.09	
						.12	

MOUNTING DATA						CONTACT DATA	
			DIMENSION		PANEL THICKNESS		<b>SOLDER CUP</b>
RIVET	C	STUD	B	GUIDE			
				CP12S-105JV2	.28 .15	.12	
						.06	
						.09	
						.12	
						.06	
						.09	
						.12	
						.06	
						.09	
						.12	
				CP12S-5JV2	.28 .13	.12	<b>STRAIGHT PIN</b>



**PLUG**



**RECEPTACLE**

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 33



## ELECTRICAL

Current Rating . . . . .	7.5 amperes
Terminal Accomodation	
Solder Cup . . . . .	One #20 AWG Wire
Eyelet and Turret . . . . .	Two #20 AWG or Three #22 AWG Wire
Dielectric Withstanding Voltage	
Contact to Contact, Sea Level . . . . .	2700 Volts RMS Minimum
Contact to Contact, 70,000 Ft. . . . .	560 Volts RMS Minimum

## MECHANICAL

Contact Diameter . . . . .	.040 Inch
Creepage Between Contacts . . . . .	5/32 Inch Minimum
Air Space Between Contacts . . . . .	1/8 Inch Minimum
Polarization . . . . .	Guide Pins and Sockets
Socket Contacts . . . . .	Spring Tempered Beryllium Copper, Gold Plated (0 .00005 inch ) over copper strike
Pin Contacts. . . . .	Brass, Gold Plated (0 .00005 inch ) over copper strike
Guide Pins, Sockets & Hardware . . . . .	Stainless Steel, Passivated
Mounting Studs and Hardware . . . . .	Brass, Nickel Plated
Mounting Rivets . . . . .	Brass, Hot Tin Dipped
Insulation Material . . . . .	Diallyl Phthalate, Glass-Fiber Filled, MIL-M-14, Type GDI-30F. Choice of other "Mil Approved" Thermosetting Insulation ( See Page 46 )
Temperature Range . . . . .	-65? C to +125? C

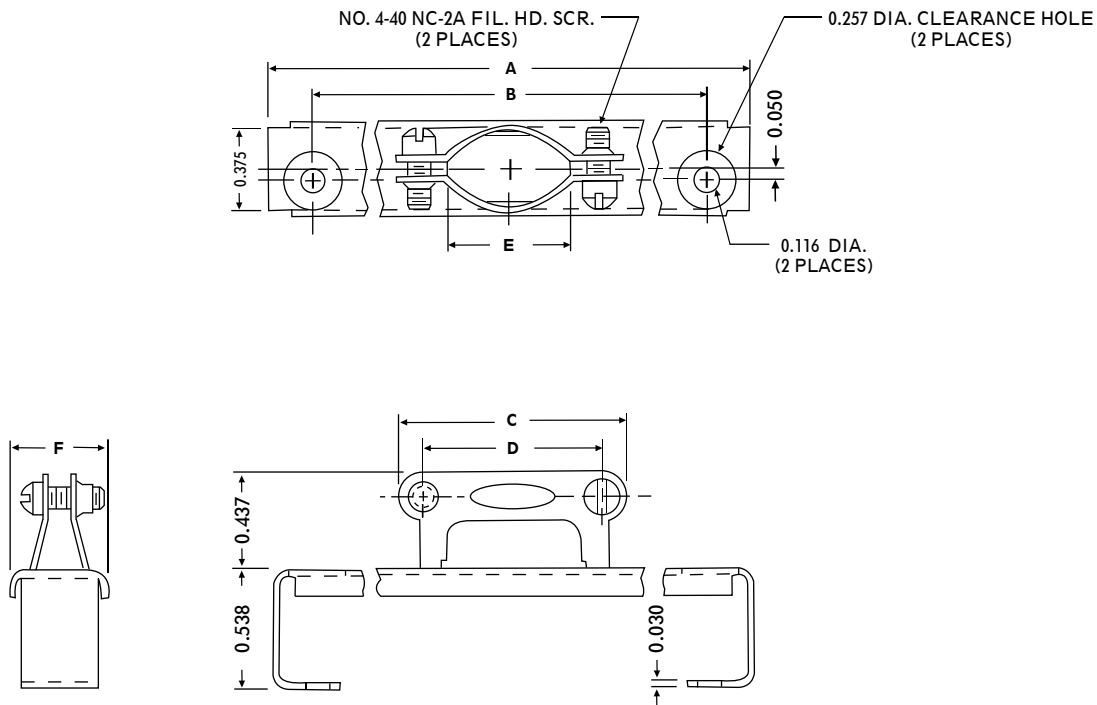
## APPROXIMATE WEIGHT

CP 10 ( pin ) . . . . .	.40 oz.
CP 10 ( socket ) . . . . .	.40 oz.
CP 12 ( pin ) . . . . .	.45 oz.
CP 12 ( socket ) . . . . .	.45 oz.

## SPECIFICATIONS

Listed on this page are the general specifications applicable to the illustrated CP Series **printed circuit connectors.**

DESIGNED FOR THE . . . DEP 11, 15, 23, 36, 37 and 45 Series Receptacles,  
THE BRACKETS . . . are assembled to the back of a receptacle by employing  
the same hardware and or guides normally supplied with the connector.



TYPE	A	B	C	D	E	F
DEP-11CB-1	1.800	1.400	0.843	0.625	0.406	0.546
DEP-15CB-1	2.200	1.800	1.031	0.812	0.562	0.546
DEP-23CB-1	3.000	2.600	1.031	0.812	0.562	0.546
DEP-36CB-1	2.550	2.150	1.031	0.812	0.562	0.546
DEP-37CB-1	4.400	4.000	1.118	0.900	0.688	0.546
DEP-45CB-1	3.000	2.600	1.031	0.812	0.562	0.546

TYPE	A	B	C	D	E	F
DEP-11CB-2	1.800	1.400	0.843	0.625	0.406	0.440
DEP-15CB-2	2.200	1.800	1.031	0.812	0.562	0.440
DEP-23CB-2	3.000	2.600	1.031	0.812	0.562	0.440
DEP-36CB-2	2.550	2.150	1.031	0.812	0.562	0.440
DEP-37CB-2	4.400	4.000	1.118	0.900	0.688	0.440
DEP-45CB-2	3.000	2.600	1.031	0.812	0.562	0.440

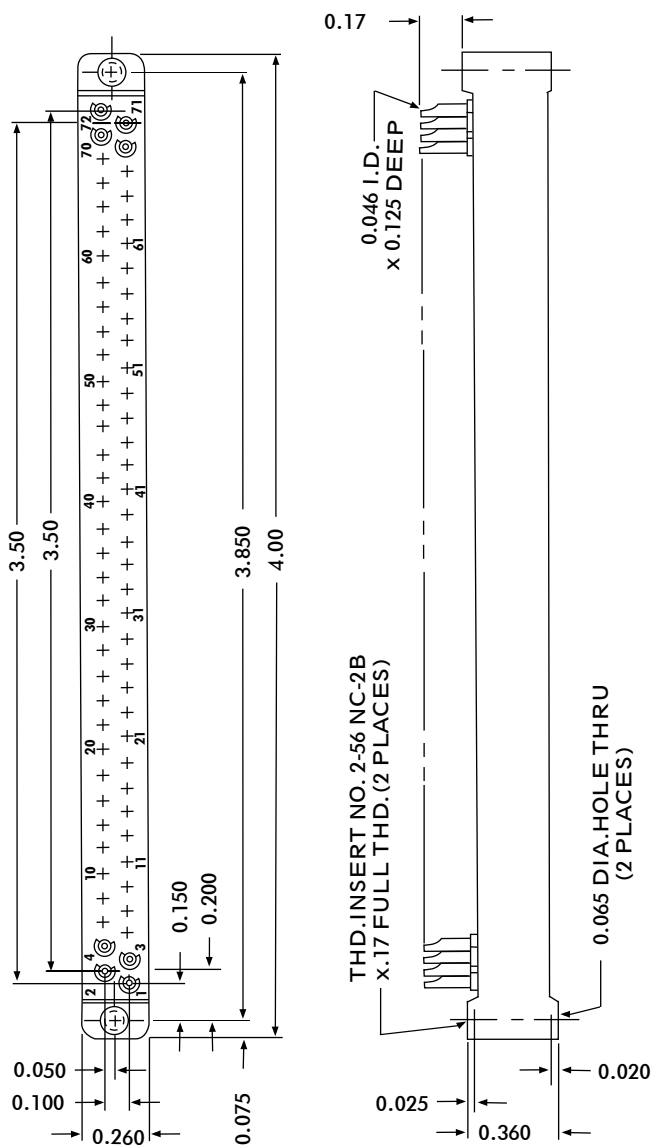
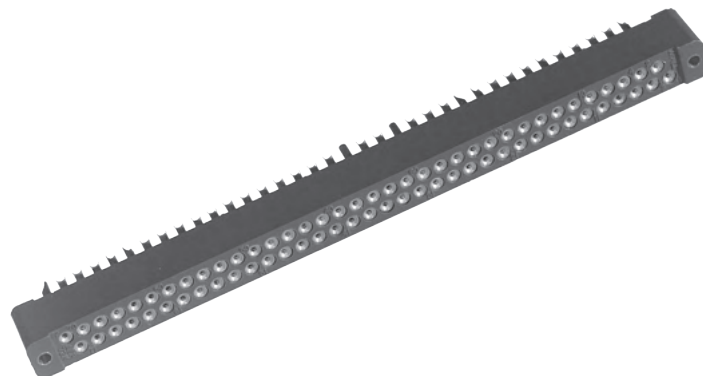
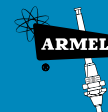
### 1. MATERIAL :

Cable Bracket, Screws :- Cres. per QQ-S-763/766.  
Class 303, Cond. A.  
Cable Clamp :- Aluminum.

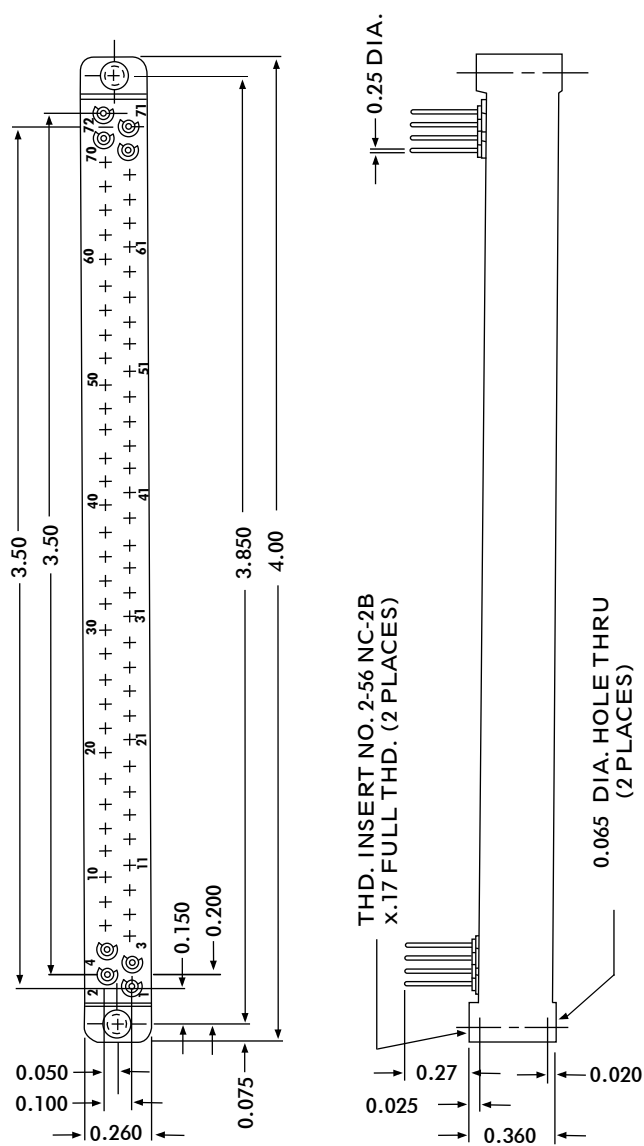
### 2. FINISH :-

Cable Bracket, Screws :- Passivated per QQ-P-35.  
Cable Cramp :- Anodized.

# AEP 72 SERIES



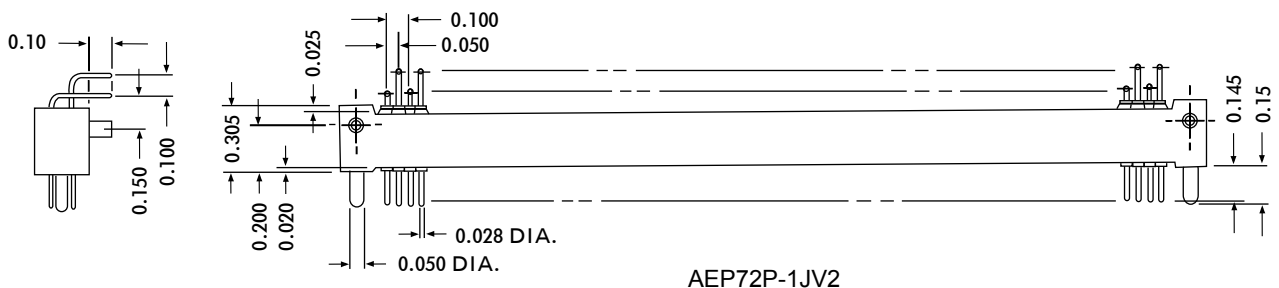
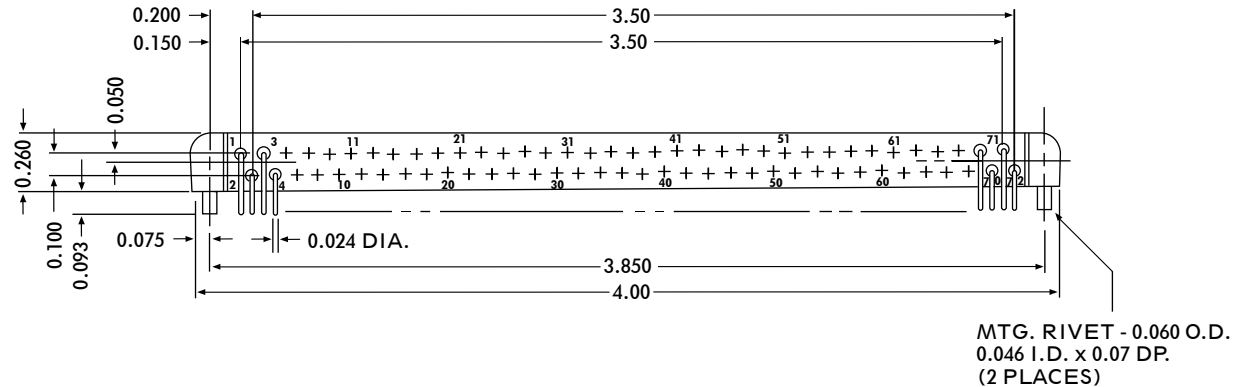
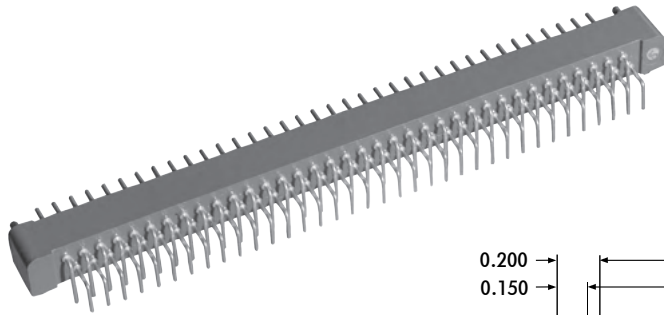
AEP72K-1JV2



AEP72K-4JV2

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 36





## SPECIFICATIONS

### ELECTRICAL

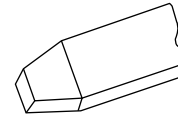
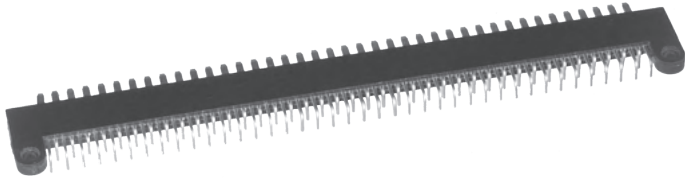
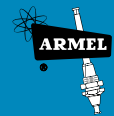
Contact Rating . . . . .	3 amperes
Solder Cup Accomodation . . . . .	One #24 AWG Wire
Dielectric Withstanding Voltage	
Contact to Contact, Sea Level . . . . .	1000 Volts RMS Minimum
Contact to Contact, 70,000 Ft. . . . .	300 Volts RMS Minimum

### MECHANICAL

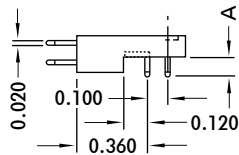
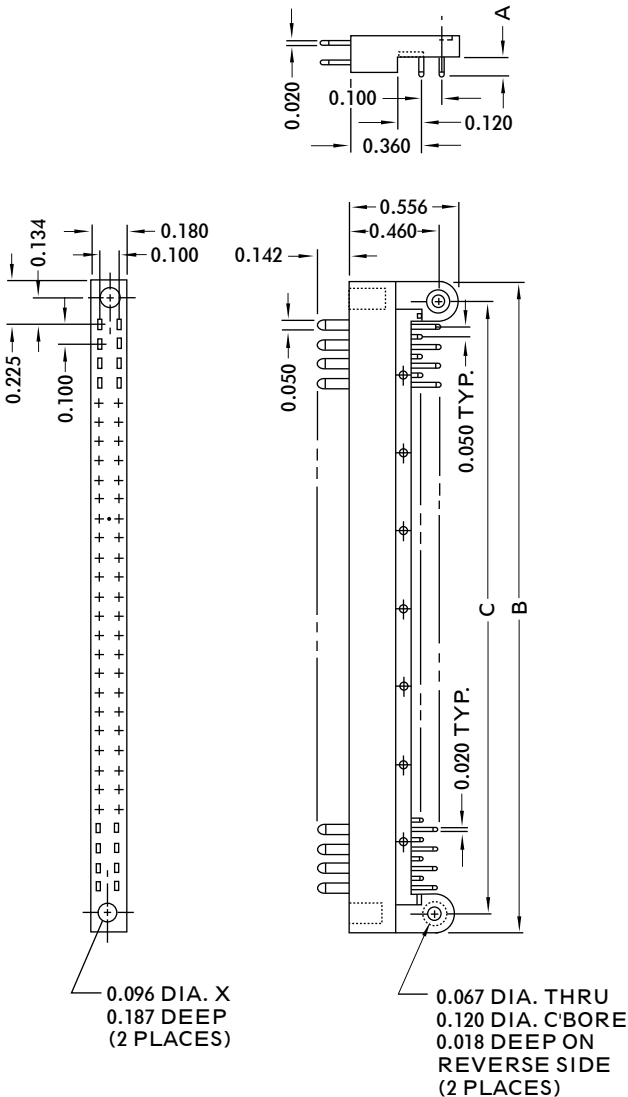
Contact Diameter . . . . .	0.028 Inch
Polarization . . . . .	Contact Arrangement
Socket Contacts . . . . .	Spring Tempered Grade "A" Phosphor Bronze, Gold plated ( 0.00005 Inch ) per MIL-G-45204, Type II, Class 1 over Copper Plate (Other Platings also available)
Pin Contacts . . . . .	Grade "A" Phosphor Bronze, Gold Plated ( 0.00005 Inch ) per MIL-G-45204 Type II, Class I over Copper Plate (Other Platings also available)
Guide Pins, Sockets . . . . .	Stainless Steel, Passivated
Mounting Rivets & Threaded Inserts	Stainless Steel, Passivated
Insulation Material . . . . .	Diallyl Phthalate, Glass Filled per MIL-M-14, Type GDI-30F
Temperature Range . . . . .	-65° C to +125° C

### Approximate Weight

AEP72 ( pin ) . . . . .	.51 oz.
AEP72 ( socket ) . . . . .	.59 oz.



BLADE CONTACTS



NO. OF CONTACTS	PART NO.	A	B	C
<b>34</b>	PCP-34P- 2L2T3	.080	2.05	1.850
	PCP-34P- 3L2T3	.120		
	PCP-34P- 4L2T3	.095		
<b>60</b>	PCP-60P- 2L2T3	.080	3.35	3.150
	PCP-60P- 9L2T3	.120		
	PCP-60P- 4L2T3	.095		
<b>80</b>	PCP-80P- 2L2T3	.080	4.35	4.150
	PCP-80P- 3L2T3	.120		
	PCP-80P- 4L2T3	.095		

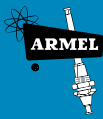
## SPECIFICATIONS

### ELECTRICAL

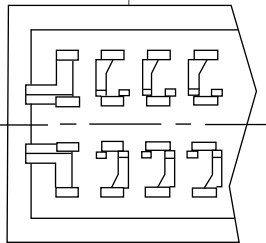
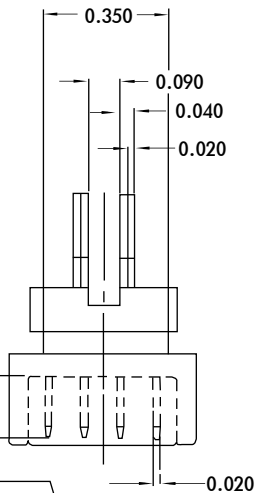
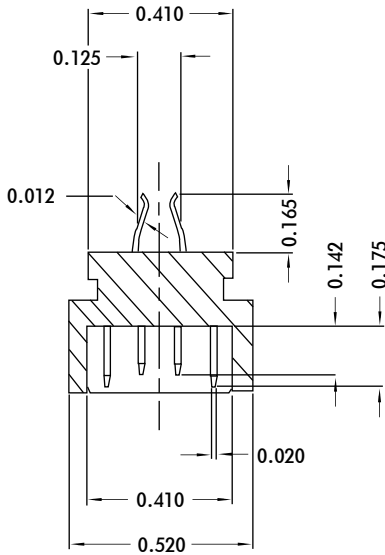
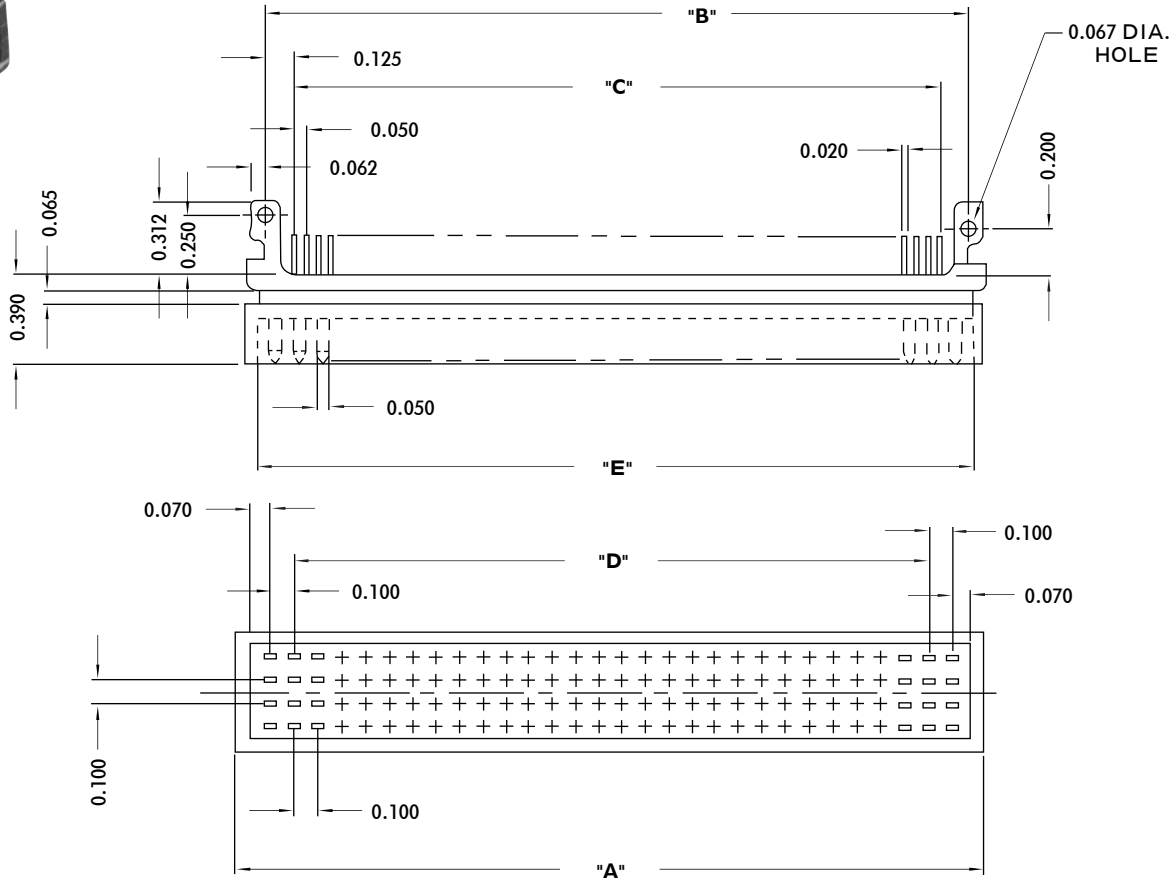
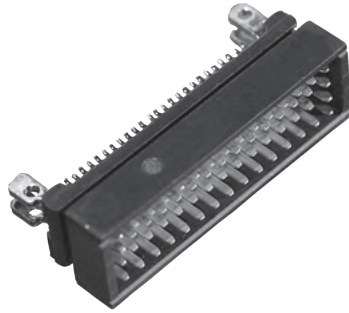
Current Rating . . . . . 3 amperes  
 Dielectric Withstanding Voltage . . . .  
 Contact to Contact  
     Sea Level . . . . . 1500 Volts  
     70,000 Feet . . . . . 375 Volts

### MECHANICAL

Contact Material . . . . . Brass, QQ-B-613  
   1/2 Hard, Comp. 2  
 Contact Finish . . . . . Gold Plated, MIL-G-45204  
   Type II, Class 1 over  
   Nickel Plate, QQ-N-290  
   Type VII, Class 1  
 Insulation Material . . . . . Diallyl Phthalate  
   MIL-M-14, Type SDG-F  
   Color Black



# LFP and PC-P SERIES



TRANSPARENT AS SEEN FROM MATING SURFACE

PART NO.	"A"	"B"	"C"	"D"	"E"
PC-44P-1L2FT3	1.250	1.100	0.850	0.800	1.140
PC-60P-1L2FT3	1.650	1.500	1.250	1.200	1.540
PC-88P-1L2FT3	2.350	2.200	1.950	1.900	2.240
PC-120P-1L2FT3	3.150	3.000	2.750	2.700	3.040

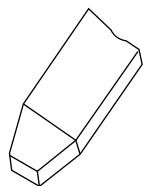
Commercial part LFP- with T2 plating is equivalent to PC- above with T3 plating

## SPECIFICATIONS

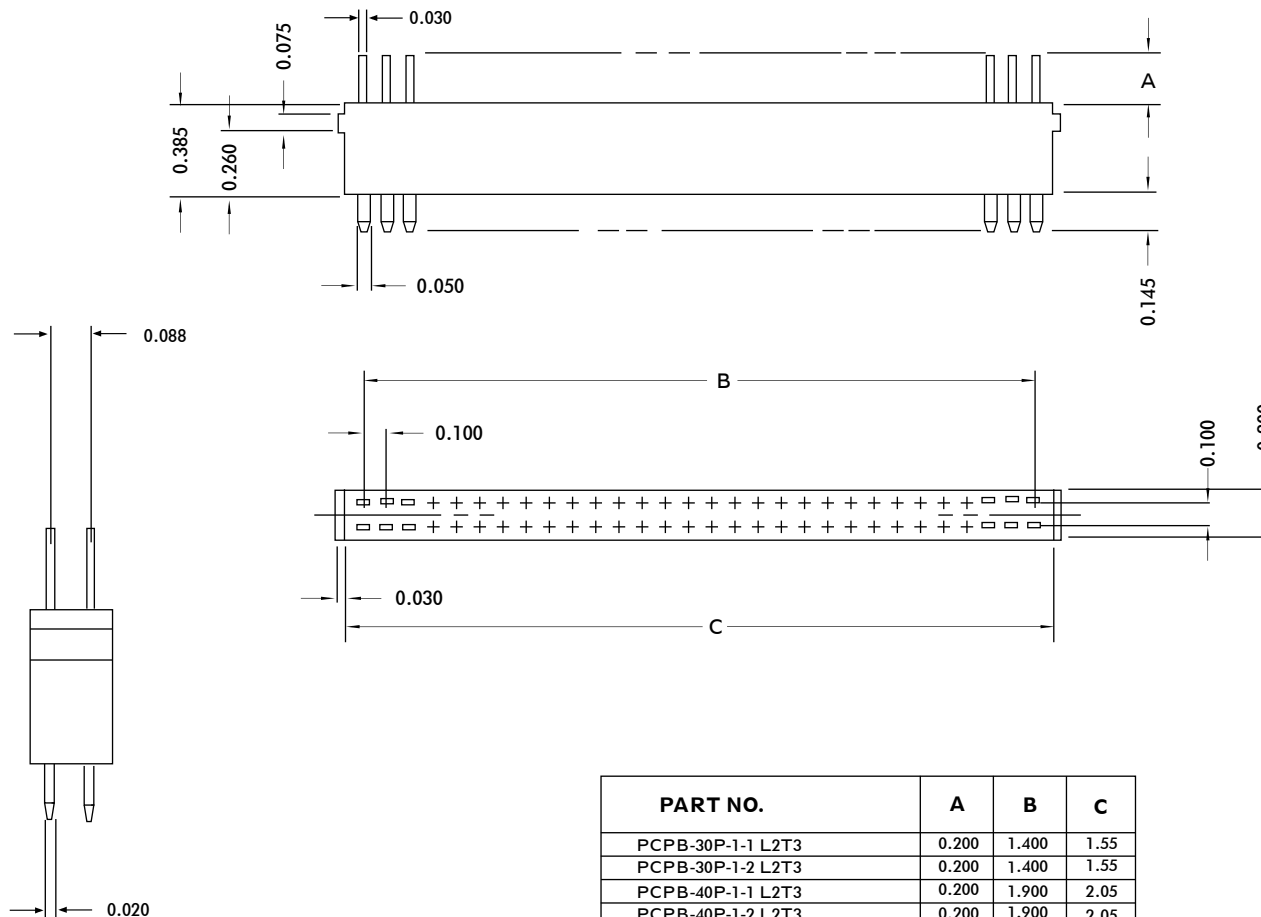
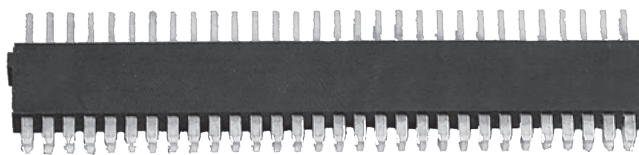
Current Rating . . . . . .5 Amperes  
 Dielectric Withstanding Voltage:  
 Contact to Contact  
     Sea Level . . . . . .1100 Volts  
     70,000 Feet. . . . . .375 Volts

## CONTACTS:

Signal Contact . . . . . Brass per QQ-B-613, 1/2 Hard, Composition 2  
 Ground Contact. . . . . Cres per ASTM-A-666, CLASS 302  
 Contact Finish. . . . . Gold Plated per MIL-G-45204, Type II, Class 1  
     over Nickel Plate per QQ-N-290, Type VII, Class 1  
 Contact Tails. . . . . Hot Solder Dipped, 60/40 Tin Lead per QQ-S-571  
     (OTHER PLATINGS AVAILABLE UPON REQUEST)  
 Insulation Material. . . . . Diallyl Phthalate per MIL-M-14, Type SDG-F, Color Black



BLADE CONTACTS

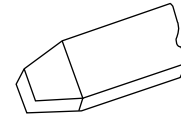
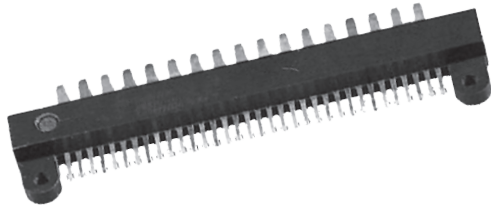


PART NO.	A	B	C
PCPB-30P-1-1 L2T3	0.200	1.400	1.55
PCPB-30P-1-2 L2T3	0.200	1.400	1.55
PCPB-40P-1-1 L2T3	0.200	1.900	2.05
PCPB-40P-1-2 L2T3	0.200	1.900	2.05
PCPB-60P-1-1 L2T3	0.200	2.900	3.05
PCPB-60P-1-2 L2T3	0.200	2.900	3.05
PCPB-70P-1-1 L2T3	0.200	3.400	3.55
PCPB-70P-1-2 L2T3	0.200	3.400	3.55

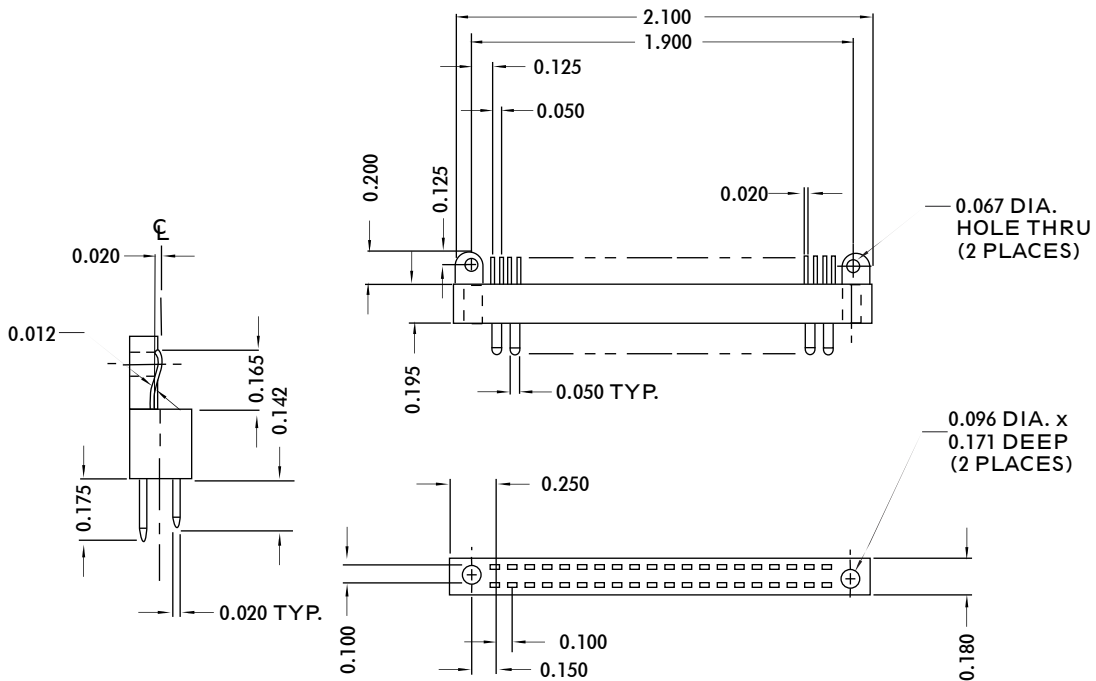
FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 37



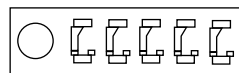
# PCPE SERIES



BLADE CONTACTS

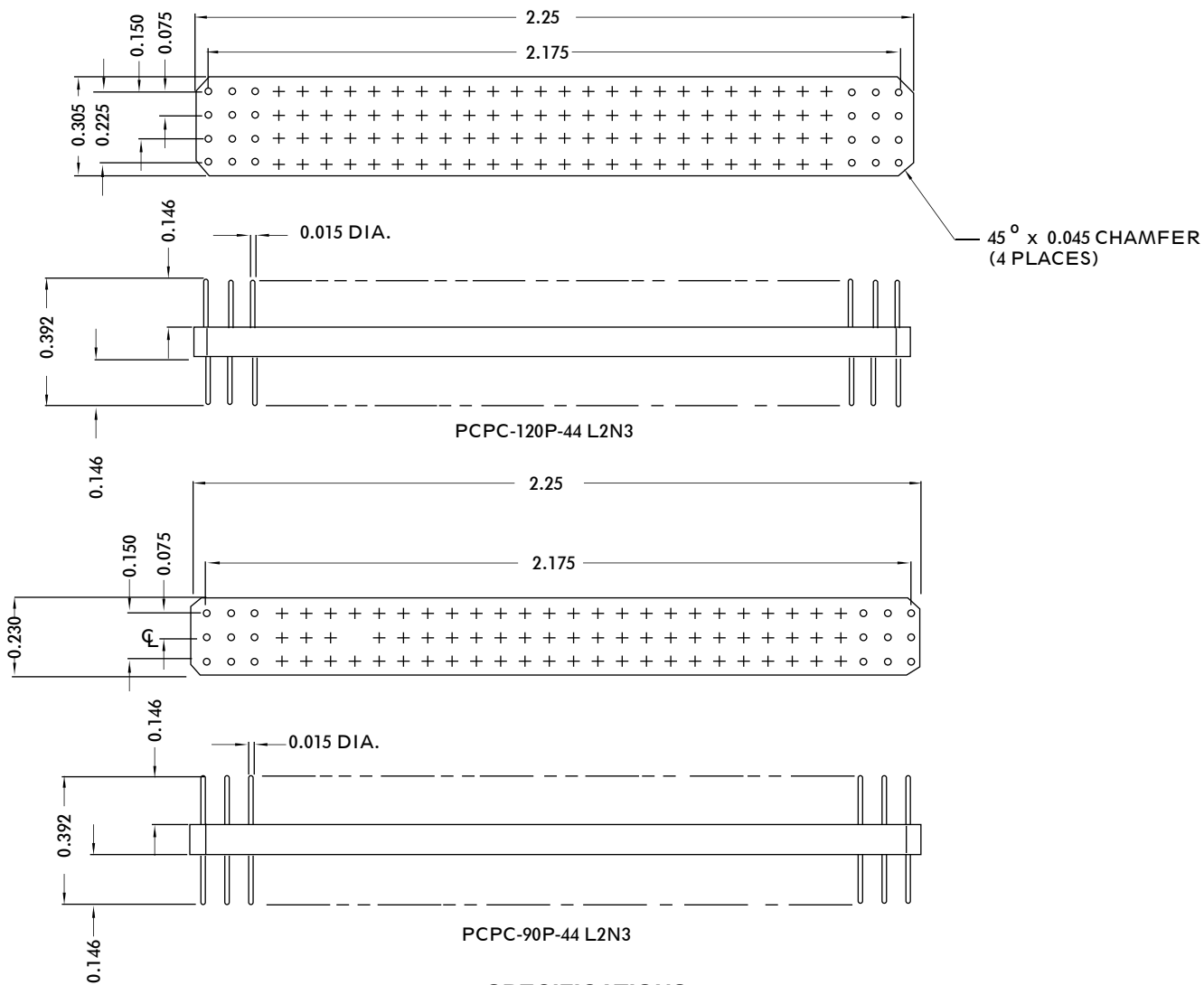
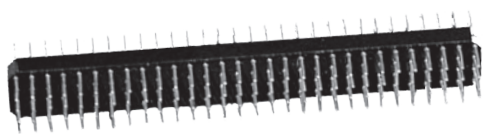


PCPE-34P-1L2T3



TRANSPARENT VIEW AS SEEN FROM MATING SURFACE

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 37



## SPECIFICATIONS

### ELECTRICAL:

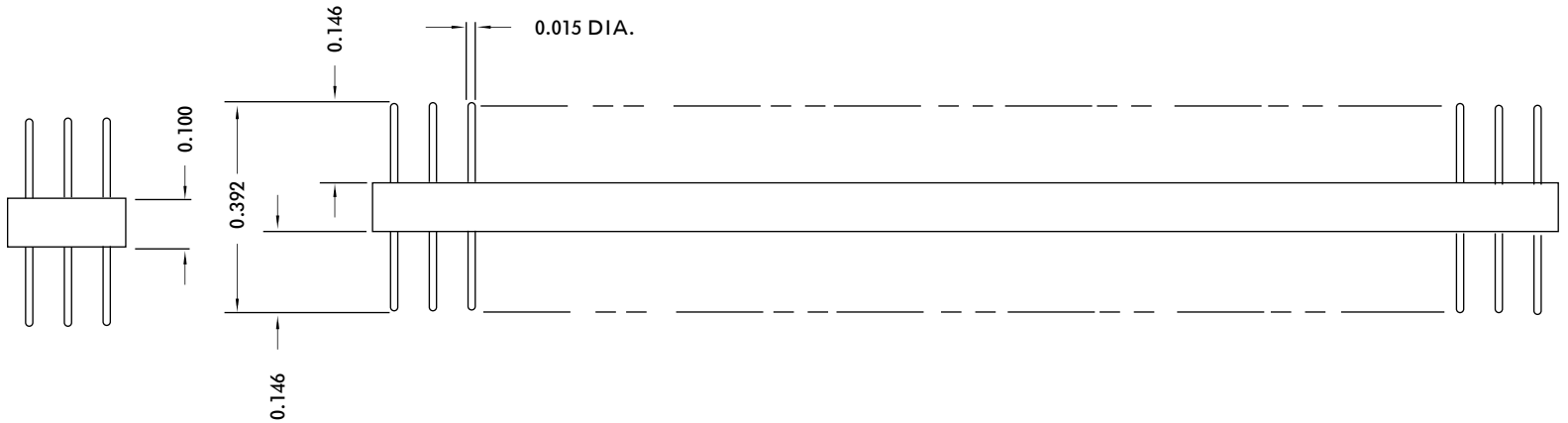
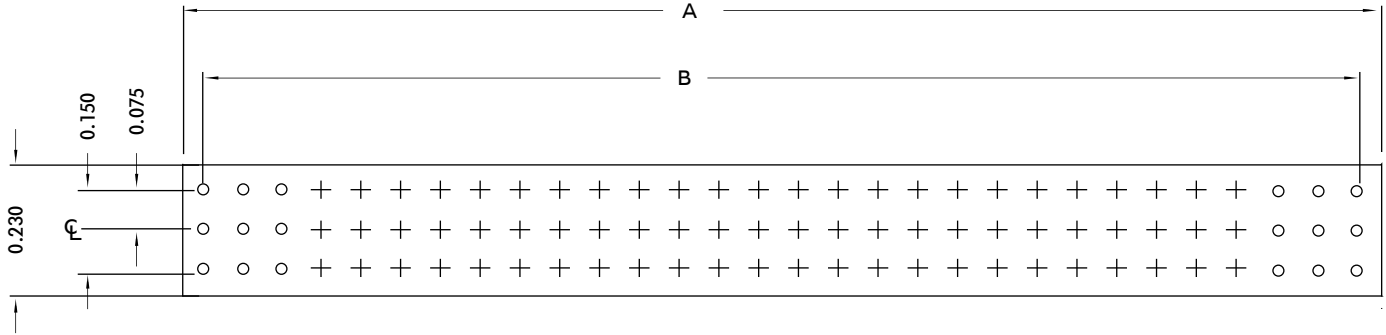
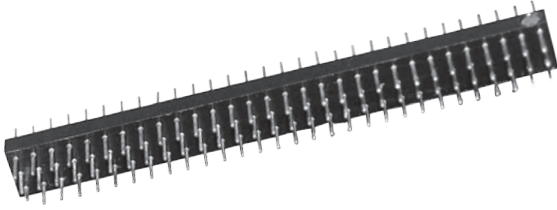
Current Rating . . . . . 3 Amperes  
 Dielectric Withstanding Voltage:  
 Contact to Contact  
     Sea Level . . . . . 1100 Volts  
     70,000 Feet. . . . . 375 Volts

### MECHANICAL:

Contact Material. . . . . Phosphor Bronze, per QQ-B-750  
   Tin Plated, per MIL-P-81728  
   (0.00030 Inch Min.)  
 Insulation Material. . . . . Diallyl Phthalate per MIL-M-14,  
   Type SDG-F, Color Black

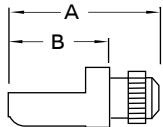
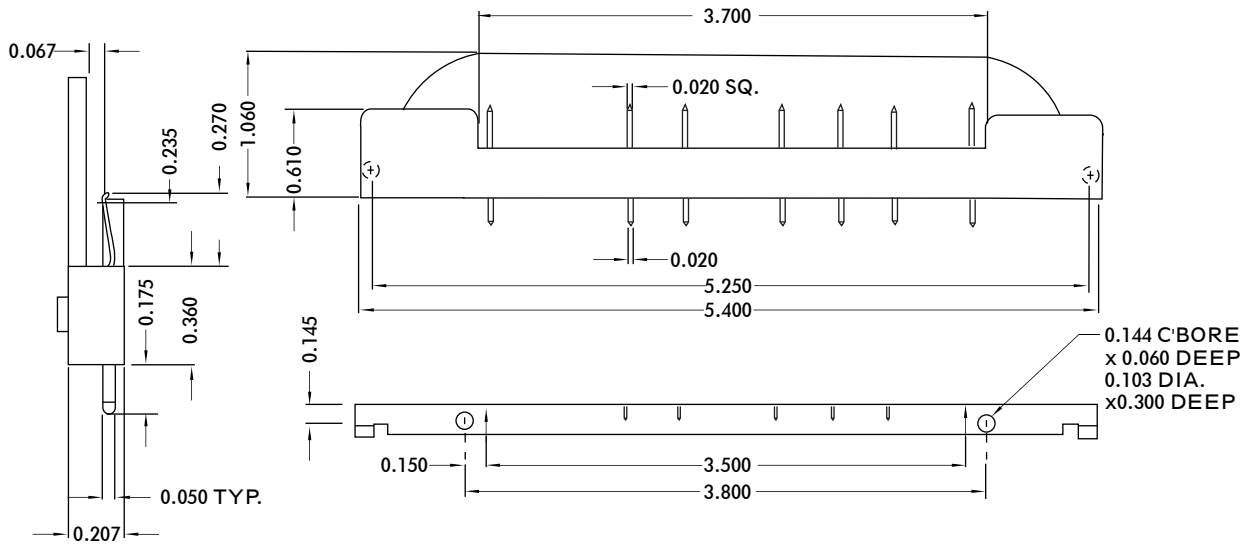
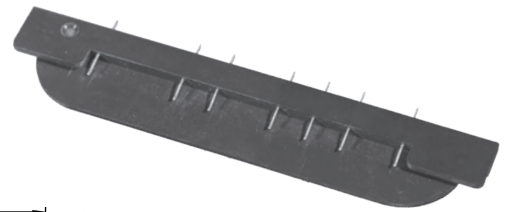


# PCPC SERIES



PART NO.	A	B
PCPC-90P-1L2N3	2.25	2.175
PCPC-92P-1L2N3	2.33	2.250
PCPC-93P-1L2N3	2.33	2.250
PCPC-120P-1L2N3	3.00	2.925

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 41



	A	B
NO.1005064-1	0.390	0.270
NO.1005064-2	0.350	0.230

PART NO.	NUMBER OF CONTACTS	CONTACTS INCLUDED
PCPF-7P-1L2T3	7	1, 11, 15, 22, 26, 30 & 36
PCPF-11P-1L2T3	11	3, 11, 17, 18, 22, 23, 28, 29, 31, 33 & 34
PCPF-7P-2L2T3	7	2, 6, 10, 13, 21, 25 & 29
PCPF-8P-1L2T3	8	1, 3, 4, 5, 12, 14, 22 & 28
PCPF-11P-2L2T3	11	16, 20, 22, 23, 30 THRU 36
PCPF-3P-1L2T3	3	14, 18 & 21

## SPECIFICATIONS

Current Rating . . . . . 5 Amperes  
 Dielectric Withstanding Voltage:  
 Contact to Contact  
     Sea Level . . . . . 1100 Volts  
     70,000 Feet. . . . . 375 Volts

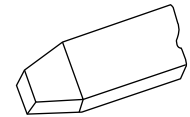
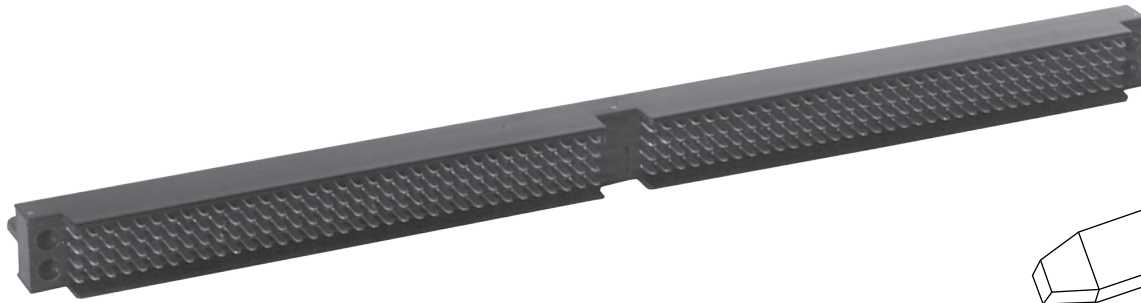
### CONTACTS:

Contact Material. . . . . Brass per QQ-B-613, 1/2 Hard, Composition 2  
 Contact Finish. . . . . Gold Plated per MIL-G-45204, Type II, Class 1  
     Over Nickel Plate per QQ-N-290, Type VII, Class 1  
     (OTHER PLATINGS AVAILABLE UPON REQUEST)  
 Insulation Material. . . . . Diallyl Phthalate per MIL-M-14, Type SDG-F, Color Black  
 Polarization. . . . . The Utilization of Pilot PIN 1005064- Permits sixteen (16)  
     Possible Polarizing Positions

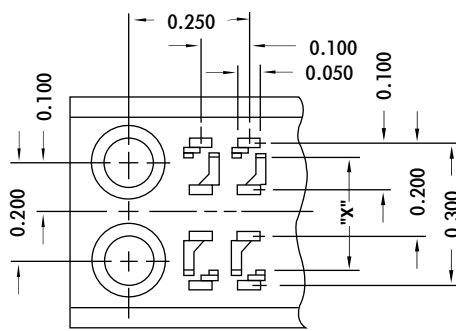
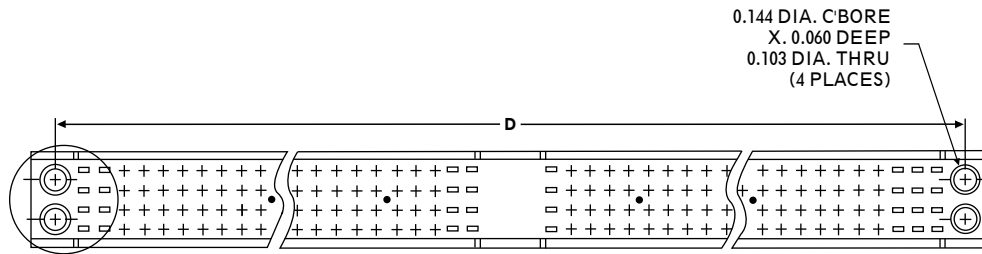
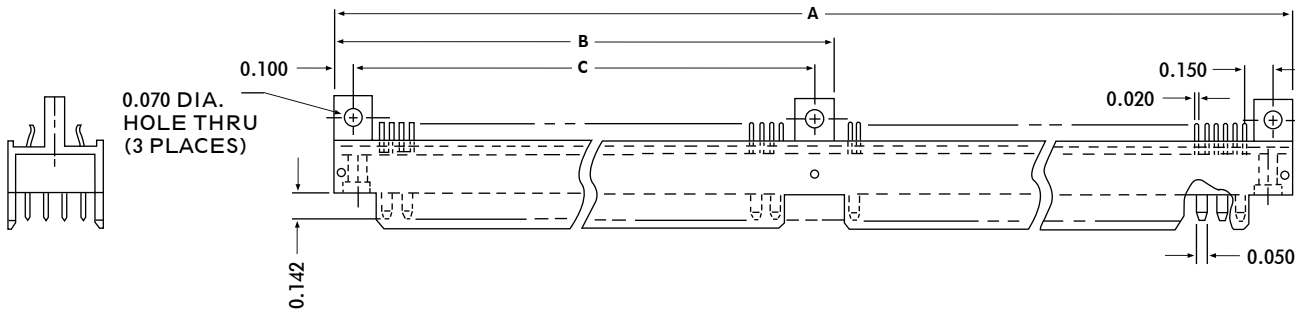




# PCPH SERIES

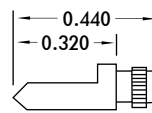


BLADE CONTACTS

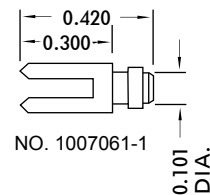


Transparent View as Seen From Mating Side

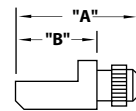
GUIDE PINS



NO. 1007059-1



NO. 1007061-1



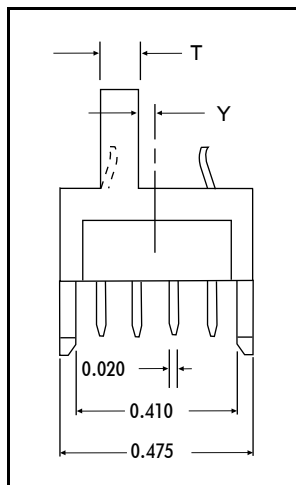
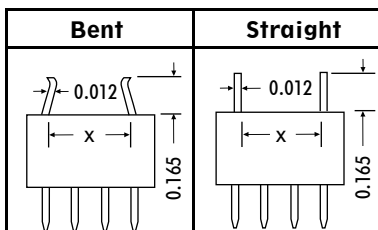
	A	B
NO. 1007060-1	.390	.270
NO. 1007060-2	.350	.230

PCPH-280P-1 L2FT3

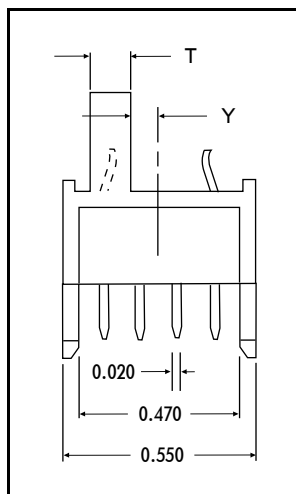
- Contact Plating
- Hot Solder Dip
- Insulation Material
- Contact Style & Spacing
- Pin Contact
- Number of Contacts
- Shroud Style

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 45

## CONTACTS



T	PART NO.	X	Y	X	A	B	C	D
0.090	PCPHE-224P-1L2FT3	0.255	0.030		6.35		3.075	6.100
0.090	PCPHE-256P-1L2FT3	0.255	0.030		7.15		3.475	6.900
0.090	PCPHE-184P-2L2FT3	0.255	0.030		5.35		2.575	5.100
0.090	PCPHE-200P-2L2FT3	0.255	0.030		5.75		2.775	5.500
0.080	PCPHF-184P-1L2FT3	0.120	0.040		5.35		2.575	5.100



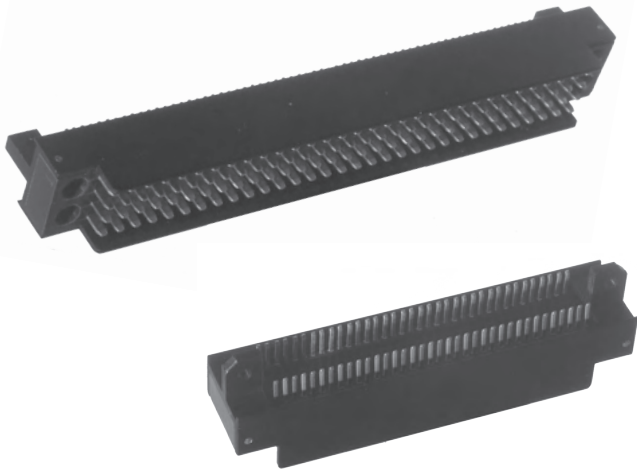
T	PART NO.	X	Y	X	A	B	C	D
0.090	PCPHC-320P-1L2FT3	0.354	0.092		9.10		4.450	8.650
0.075	PCPHS-320P-1L2FT3	0.355	0.080		9.10		4.450	8.650

## SPECIFICATIONS

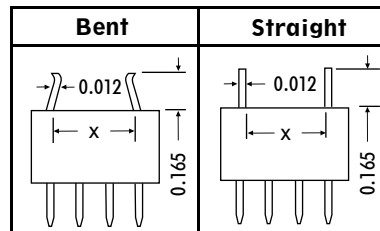
Current Rating . . . . . 3 amperes  
 Dielectric Withstanding Voltage . . . . . 1500 Volts  
 Contact to Contact:  
     Sea Level . . . . . 1500 Volts  
     70,000 Feet . . . . . 375 Volts

### CONTACTS:

Contact Material . . . . . Brass, per QQ-B-613, 1/2 Hard, Composition 2  
 Contact Finish . . . . . Gold Plate per MIL-G-45204, Type II, Class 1  
     over Nickel Plate per QQ-N-290, Type VII, Class 1  
 Shroud Material . . . . . Aluminum, per QQ-A-200, Alloy 6061-T6  
 Shroud Finish . . . . . Anodized, per MIL-A-8625, Type I, Class 2, Color Black  
 Insulation Material . . . . . Diallyl Phthalate per MIL-M-14, Type SDG-F, Color Black



### CONTACTS



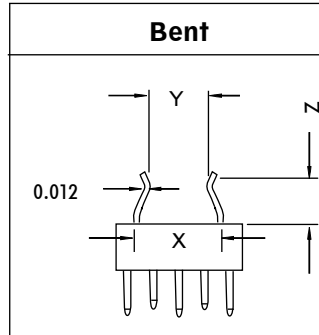
T	PART NO.	X	X	A	B	C	D	
0.102	PCPH-128P-11L2FT3		0.255		3.65	3.450	3.400	*
0.102	PCPH-140P-1L2FT3	0.255			3.95	3.750	3.700	*
0.102	PCPH-280P-1L2FT3	0.255		7.75		3.775	7.500	**
0.102	PCPH-280P-2L2FT3	0.269		7.75		3.775	7.500	**

T	PART NO.	X	X	A	B	C	D	
0.060	PCPHA-280P-1L2FT3	0.290		7.75		3.775	7.50	**
0.060	PCPHA-56P-12L2FT3	0.269			2.05	1.850	1.600	*
0.045	PCPHJ-224P-1L2FT3	0.250		6.35		3.075	6.100	**
0.045	PCPHJ-224P-2L2FT3	0.290		6.35		3.075	6.100	**
0.060	PCPHA-72P-1L2FT3	0.290			2.25	2.050	2.000	*
0.060	PCPHA-280P-2L2FT3	0.255		7.75		3.775	7.50	**
0.060	PCPHN-280P-1L2FT3	0.306		7.75	3.97	3.775	7.50	**
0.060	PCPHN-280P-21L2FT3	0.306		7.75	3.97	3.775	7.50	**

\* TWO MOUNTING TABS  
\*\* THREE MOUNTING TABS



### CONTACTS



	T	PART NO.	X	Y	Z	A	B	C	D	
	0.060	PCPHR-175PM-3L2FT3	0.340	0.250	0.180	---	3.97	3.775	3.70	*
	0.045	PCPHP-280P-3L2FT3	0.340	0.250	0.180	6.35	---	3.075	6.10	**
	0.060	PCPHR-320P-3L2FT3	0.340	0.250	0.180	7.15	---	3.475	6.90	**
	0.060	PCPHR-350P-3L2FT3	0.340	0.250	0.180	7.75	---	3.775	7.50	**
	0.060	PCPHR-350P-5L2FT3	0.340	0.188	0.167	7.75	---	3.775	7.50	**

\* TWO MOUNTING TABS  
\*\* THREE MOUNTING TABS

### SPECIFICATIONS

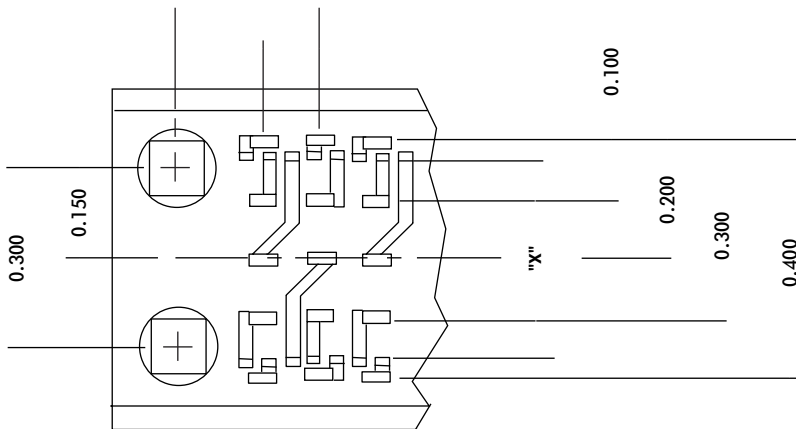
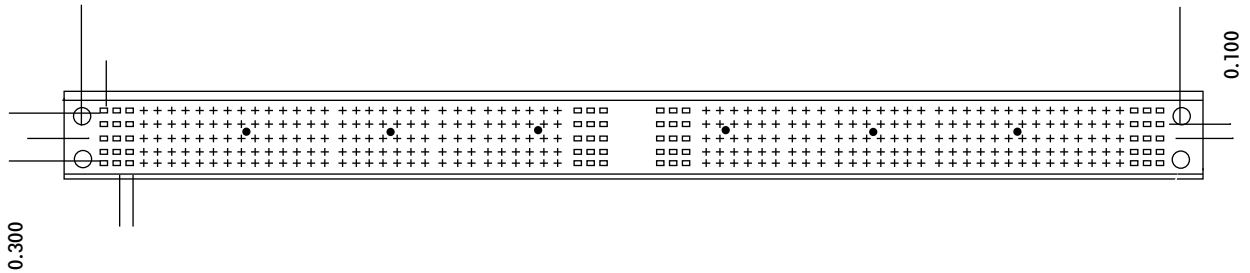
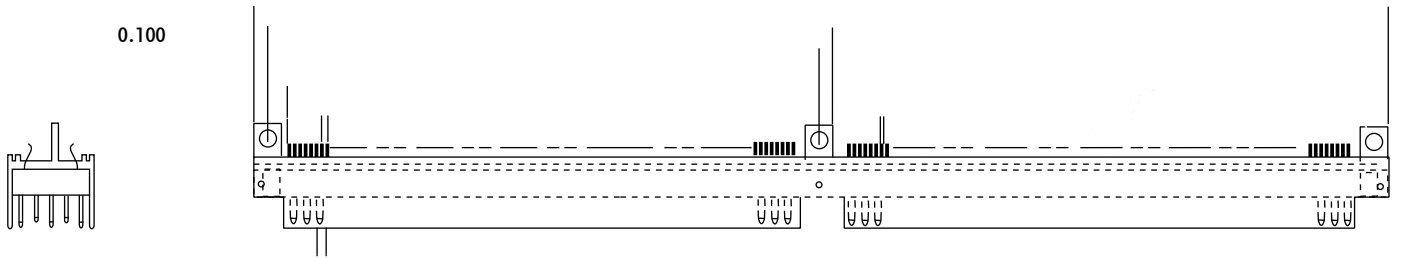
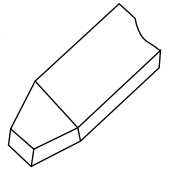
Current Rating . . . . . 3 Amperes  
Dielectric Withstanding Voltage:  
Contact to Contact:  
Sea Level . . . . . 1100 Volts  
70,000 Feet . . . . . 375 Volts

#### CONTACTS:

Contact Material . . . . . Brass, per QQ-B-613, 1/2 Hard, Composition 2  
Contact Finish . . . . . Gold Plate per MIL-G-45204, Type II, Class 1  
over Nickel Plate per QQ-N-290, Type VII, Class 1  
Shroud Material . . . . . Aluminum, per QQ-A-200, Alloy 6061-T6  
Shroud Finish . . . . . Anodized, per MIL-A-8625, Type I, Class 2, Color Black  
Insulation Material . . . . . Diallyl Phthalate per MIL-M-14, Type SDG-F, Color Black  
Polarization. . . . . With the Utilization of Guide PIN 1007428-1 with  
the PCPHP, PCPHR, PCPHAE and PCPHR-280PR-series  
will Permit an Arrangement of (16) Possible Polarizing  
Combinations. (SEE PAGE 49 FOR GUIDE PINS)



# PCPHP PCPHR SERIES



PCPHR-350P-3 L2FT3

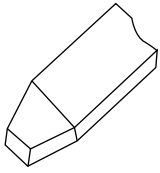
- Contact Plating
- Contact Tails Hot Solder Dipped
- Insulation Material
- Contact Style & Spacing
- Pin Contact
- Number of Contacts
- Shroud Style

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 47

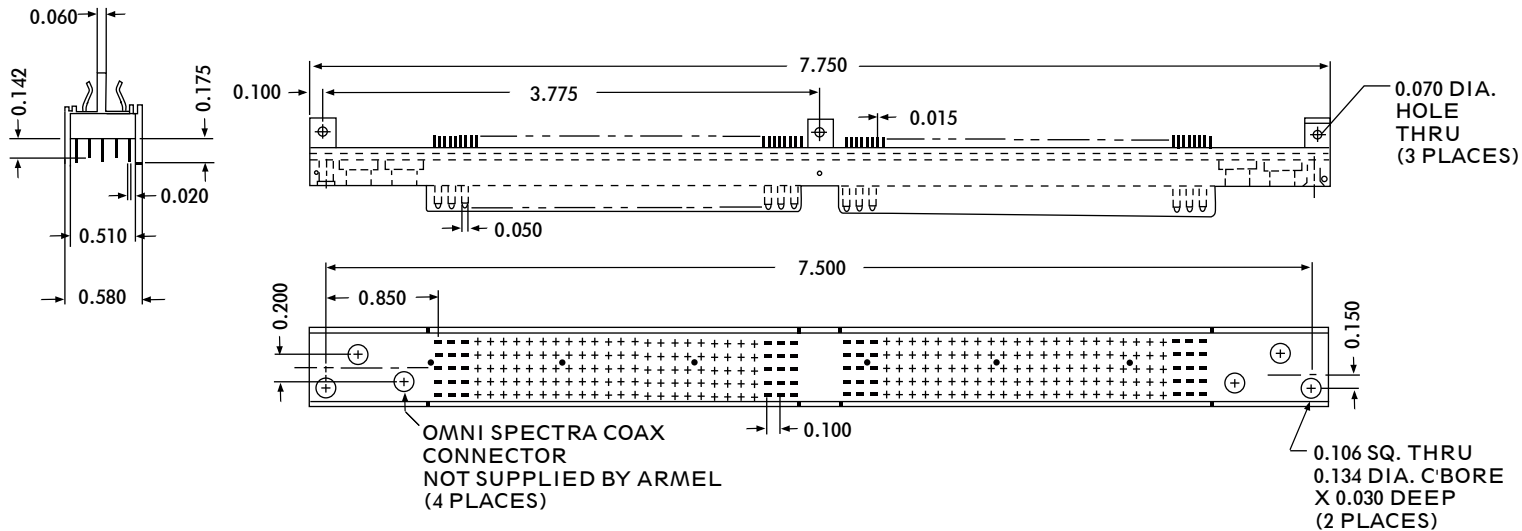
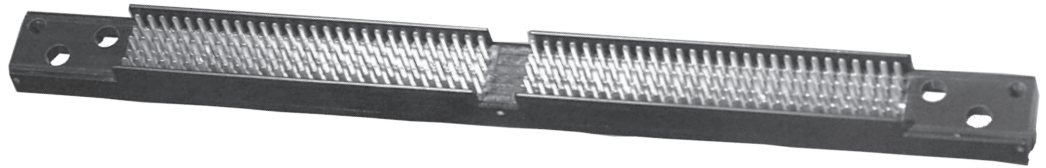
Questions? Contact Armel Electronics at: 1.800.840.0666

printed circuit connectors

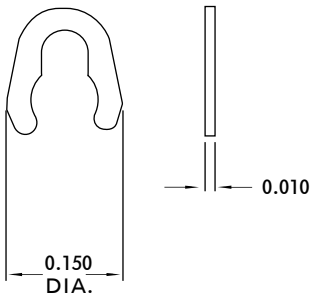
# PCPHR-PR SERIES



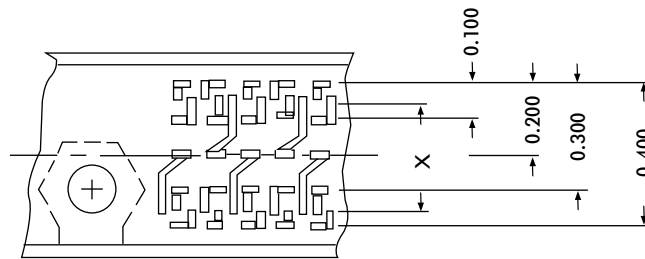
BLADE CONTACTS



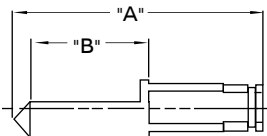
PCPHR-280PR-3L2FT3



1007424-1

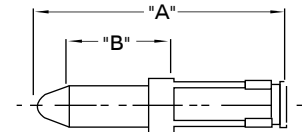


TRANSPARENT VIEW AS SEEN FROM MATING SIDE



1007428-

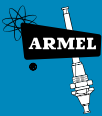
PART NO.	A	B
1007428-1	0.520	0.250
1007428-2	0.550	0.280



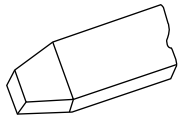
1007431-

PART NO.	A	B
1007431-1	0.662	0.360
1007431-2	0.852	0.550
1007431-3	1.002	0.700

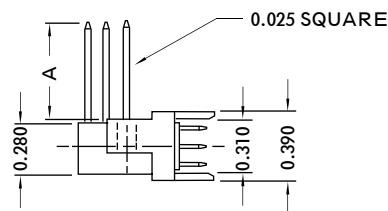
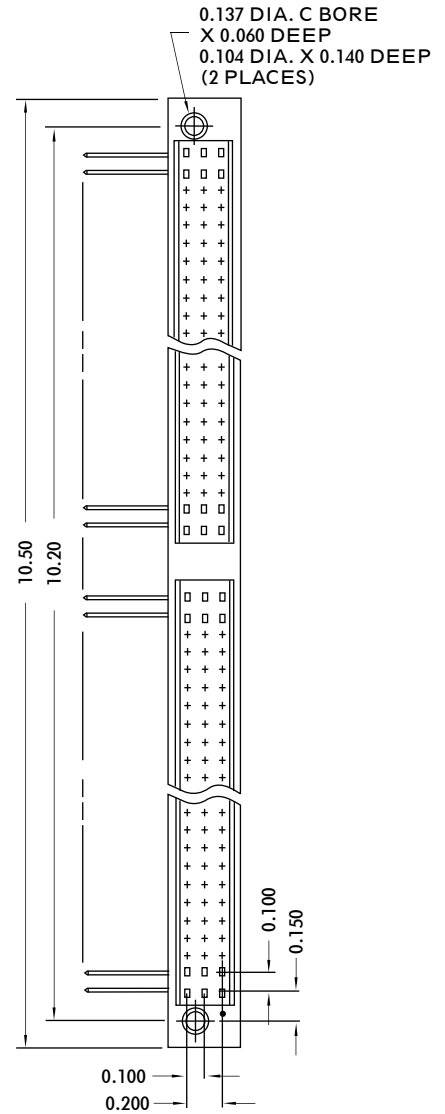
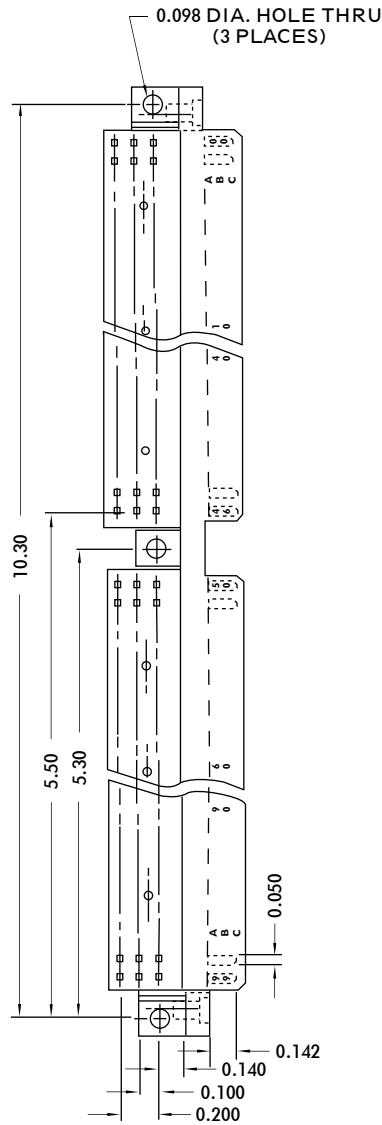
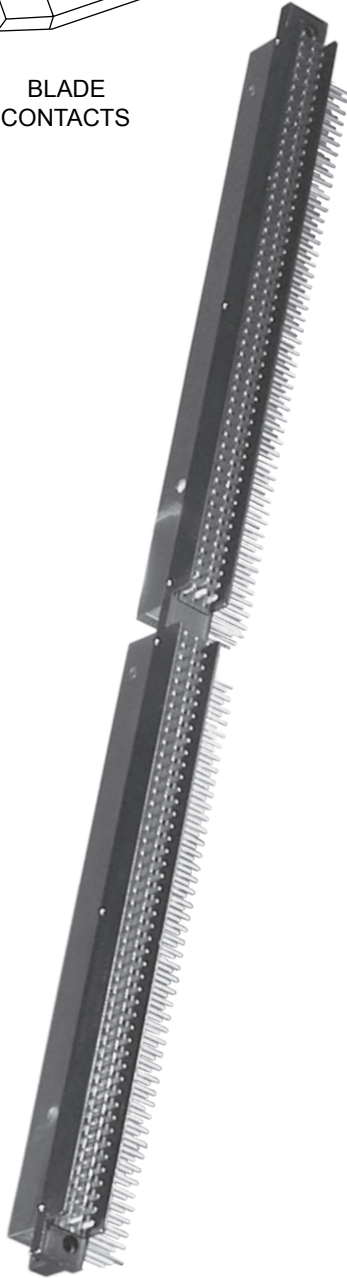
FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 45



# PCPHD SERIES



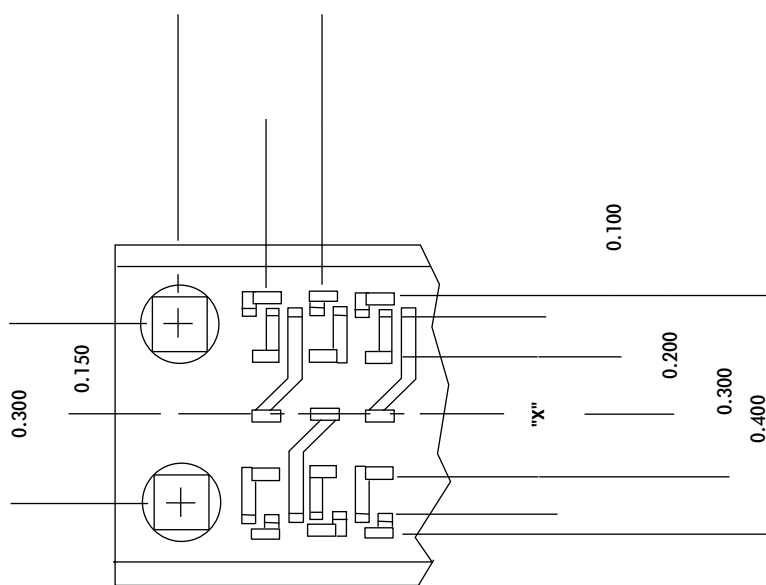
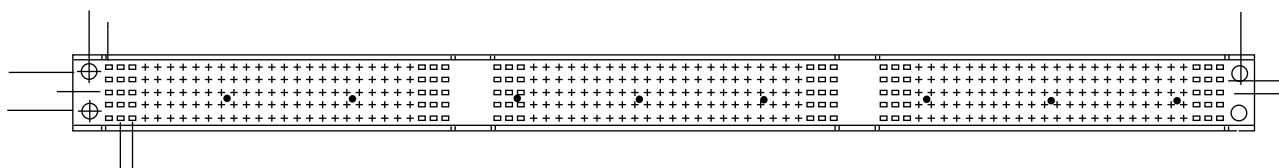
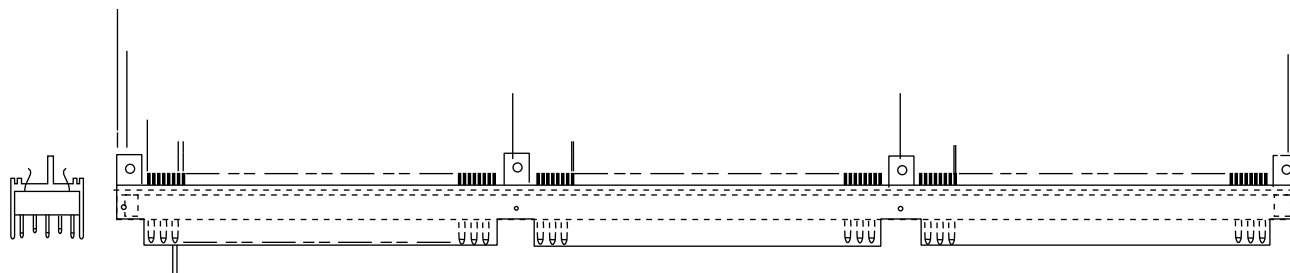
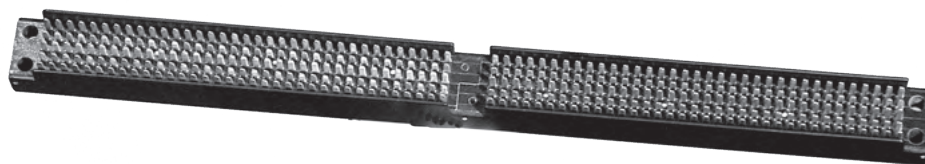
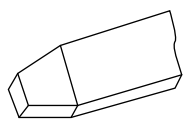
BLADE CONTACTS



PART NUMBER	"A"
PCPHD-291P-1L2T3	0.533
PCPHD-291P-4L2T3	0.125

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 45

# PCPHP, PCPHR & PCPHAE 400 & 500 SERIES



PCPHAE-420P-3 L2FT3

- Contact Plating
- Contact Tails Hot Solder Dipped
- Insulation Material
- Contact Style & Spacing
- Pin Contact
- Number of Contacts
- Shroud Style

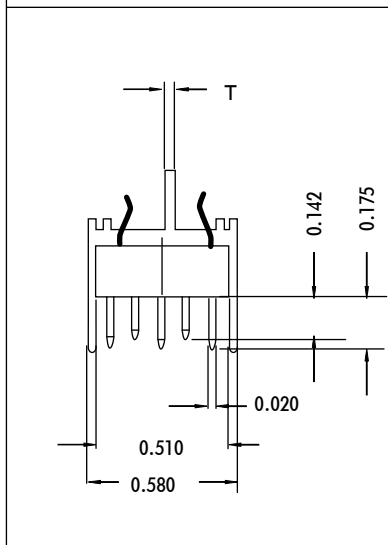
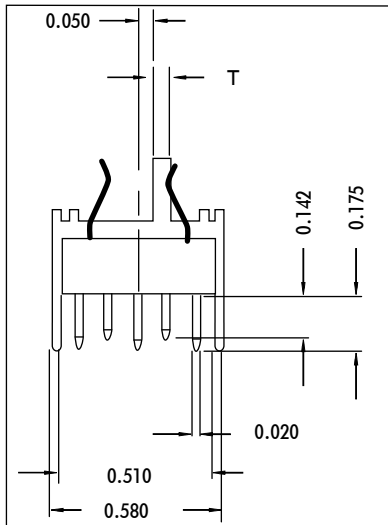
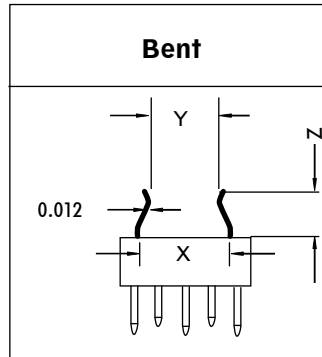
FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 47





# PCPHP, PCPHR & PCPHAE 400 & 500 SERIES

## CONTACTS

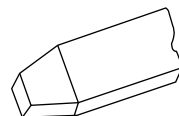
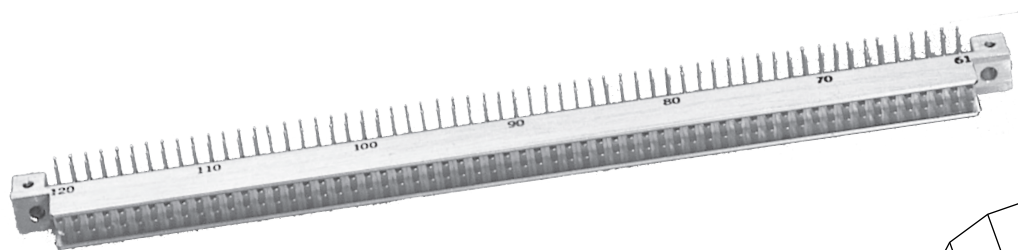
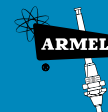


T	PART NO.	X	Y	Z	A	B	C	D	E
0.060	PCPHAE-420P-3L2FT3	0.340	0.180	0.250	9.45	9.280	3.090	3.100	9.20
T	PART NO.	X	Y	Z	A	B	C	D	E
0.060	PCPHR-400P-3L2FT3	0.340	0.250	0.180	9.050	8.850	2.875	3.100	8.80
0.060	PCPHR-420P-3L2FT3	0.340	0.250	0.180	9.450	9.250	3.075	3.100	9.20
0.045	PCPHP-420P-6L2FT3	0.340	0.275	0.180	9.450	9.250	3.075	3.100	9.20
0.045	PCPHP-450P-3L2FT3	0.340	0.250	0.180	10.050	9.850	3.075	3.700	9.80
0.045	PCPHP-490P-3L2FT3	0.340	0.250	0.180	10.850	10.650	3.775	3.100	10.60
0.045	PCPHP-520P-3L2FT3	0.340	0.250	0.180	11.450	11.250	3.775	3.700	11.20

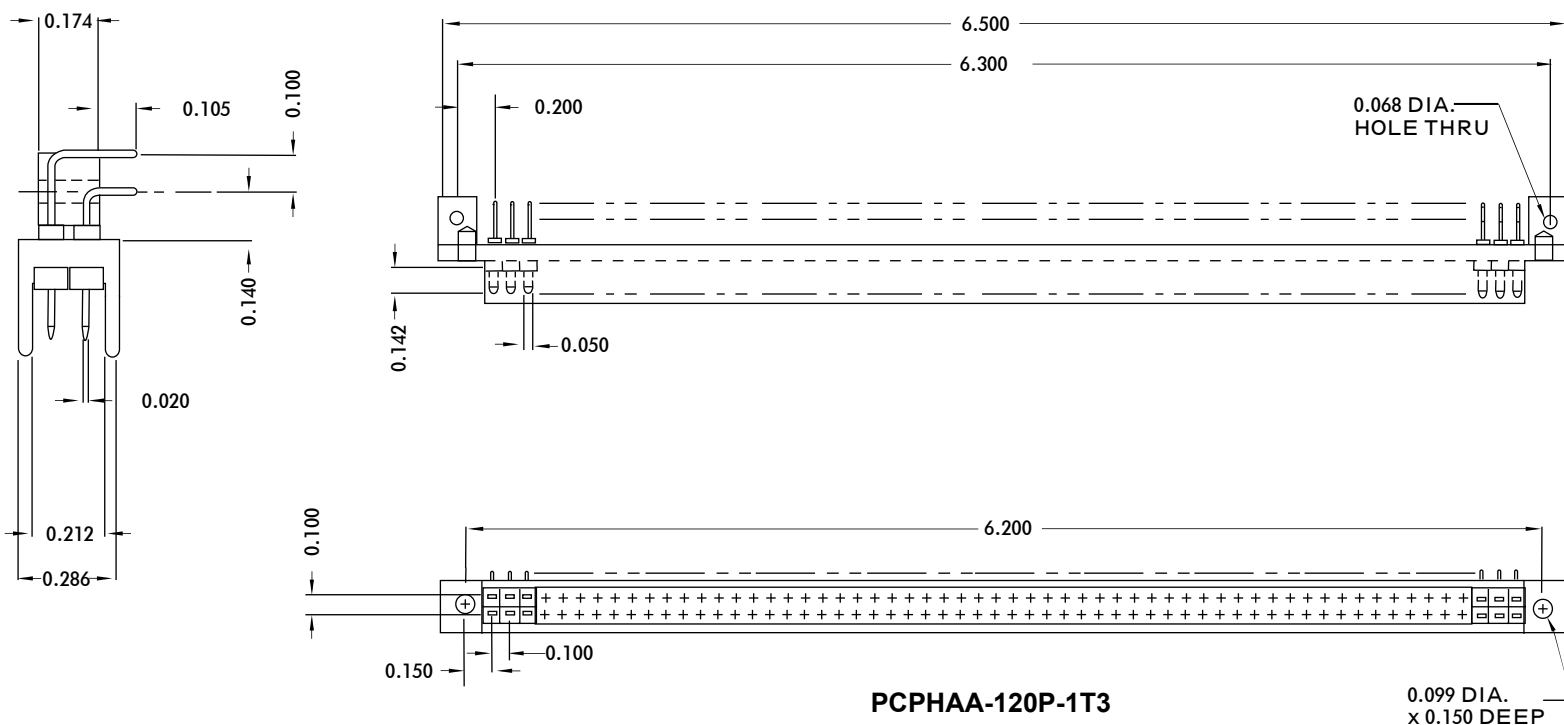
\* FOUR MOUNTING TABS

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 47

# PCPHAA SERIES



BLADE CONTACTS



PCPHAA-120P-1T3

0.099 DIA.  
x 0.150 DEEP

## SPECIFICATIONS

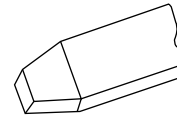
Current Rating . . . . . 3 Amperes  
 Dielectric Withstanding Voltage:  
 Contact to Contact  
     Sea Level . . . . . 1000 Volts  
     70,000 Feet. . . . . 375 Volts

### CONTACTS:

Contact Material. . . . . Brass per QQ-B-613, 1/2 Hard, Comp 2.  
 Contact Insulators. . . . . Nylon 6-6, per MIL-M-20693  
 Shroud Material. . . . . Aluminum, per QQ-A-200, Alloy 6063-T6  
 Contact Finish. . . . . Gold Plated per MIL-G-45204, Type II, Class 1,  
     over Gold Plate per MIL-G-45204, Type I, Class 1,  
     over Nickel Plate per QQ-N-290, Type VII, Class 1  
     (OTHER PLATINGS AVAILABLE UPON REQUEST)  
 Shroud Finish. . . . . Gold Chromate Conversion per MIL-C-5541

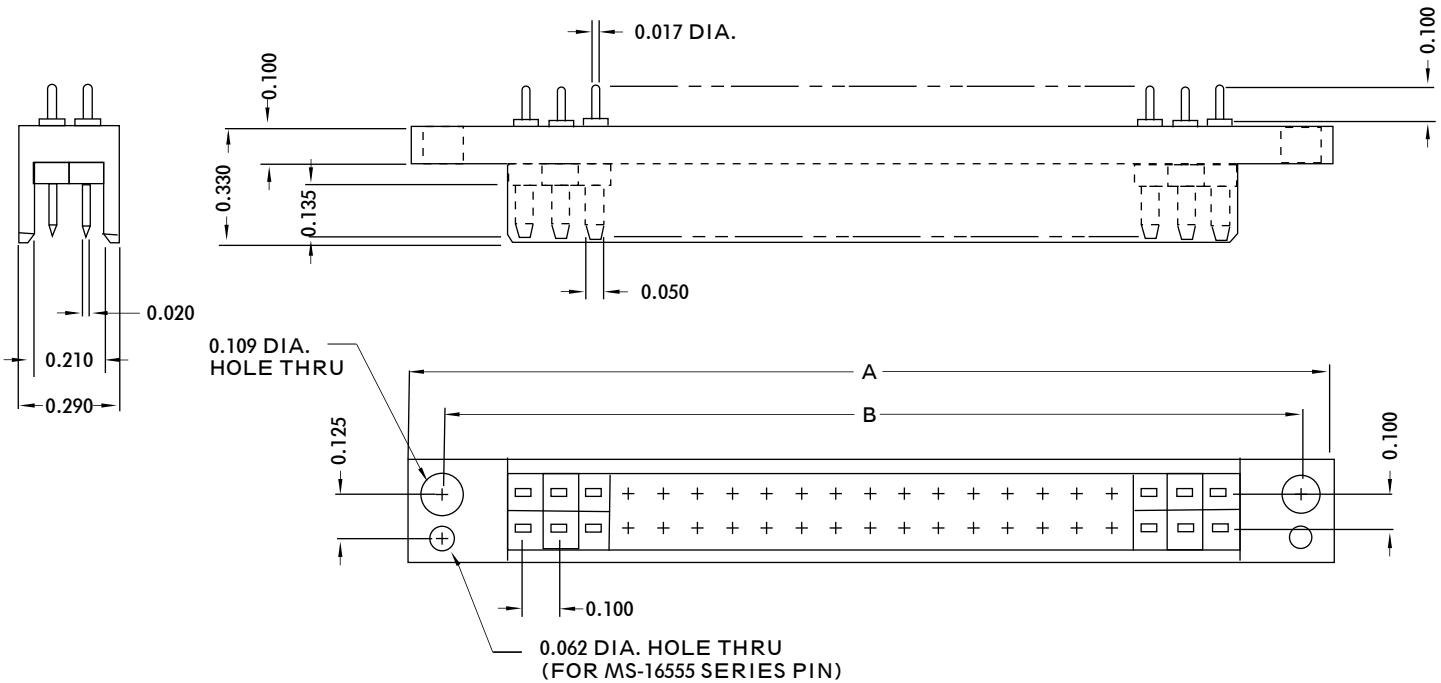


# PCPHW SERIES



BLADE CONTACTS

PART NO.	A	B
PCPHW-32P-1T3	2.150	1.970
PCPHW-42P-1T3	2.650	2.470



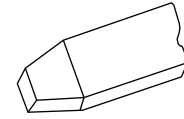
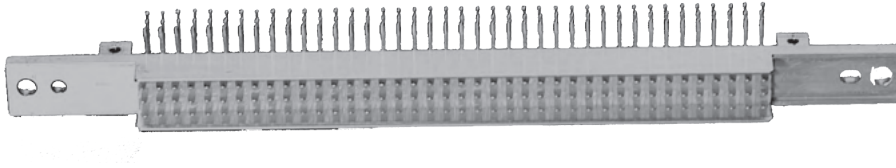
## SPECIFICATIONS

Current Rating . . . . . 3 Amperes  
 Dielectric Withstanding Voltage:  
 Contact to Contact  
 Sea Level . . . . . 1000 Volts  
 70,000 Feet. . . . . 375 Volts

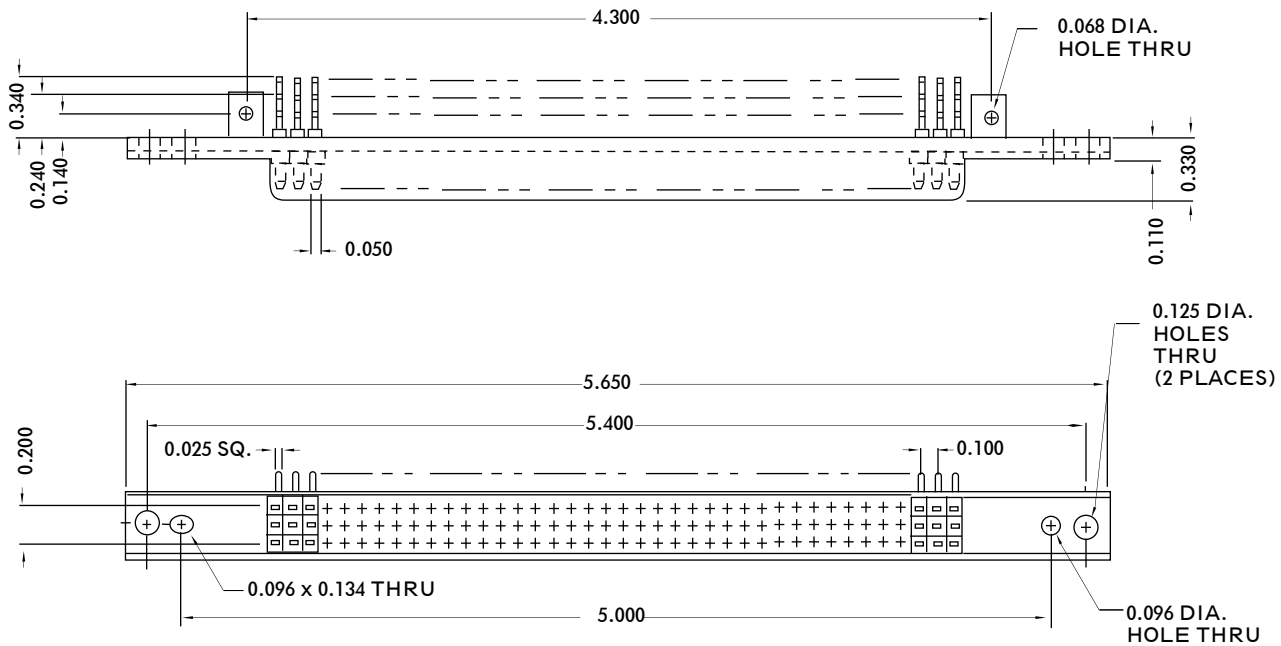
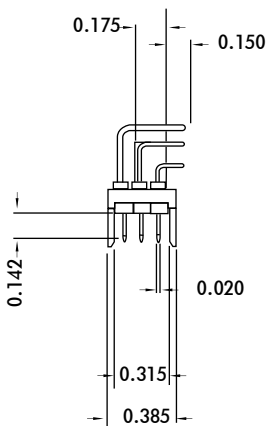
### CONTACTS:

Contact Material. . . . . Brass per QQ-B-613, 1/2 Hard, Comp 2.  
 Contact Insulators. . . . . Nylon 6-6, per MIL-M-20693  
 Shroud Material. . . . . Aluminum, per QQ-A-200, Alloy 6061-T6  
 Contact Finish. . . . . Gold Plated per MIL-G-45204, Type II, Class 1,  
 over Nickel Plate per QQ-N-290, Type VII, Class 1  
 (OTHER PLATINGS AVAILABLE UPON REQUEST)  
 Shroud Finish. . . . . Anodized per MIL-A-8625, Type II, Class 2, Color Black

# PCPHY SERIES



BLADE CONTACTS

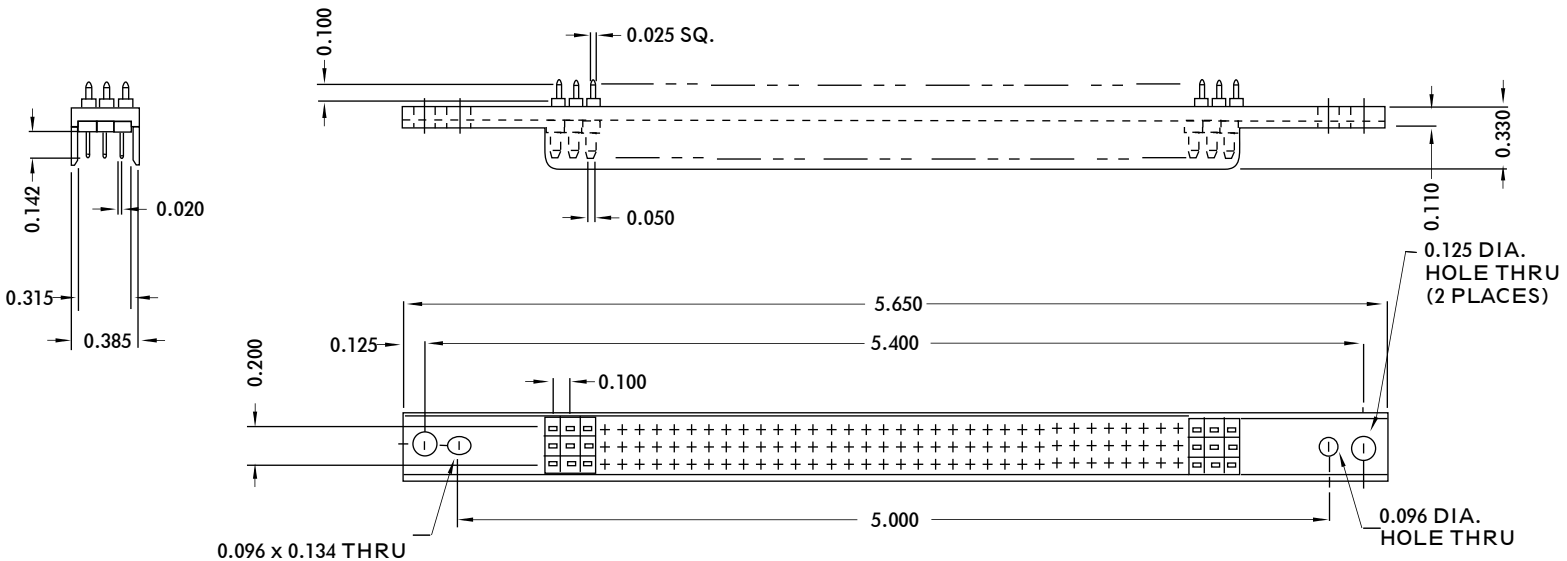
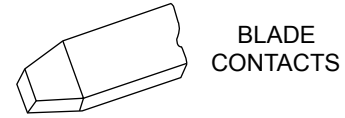
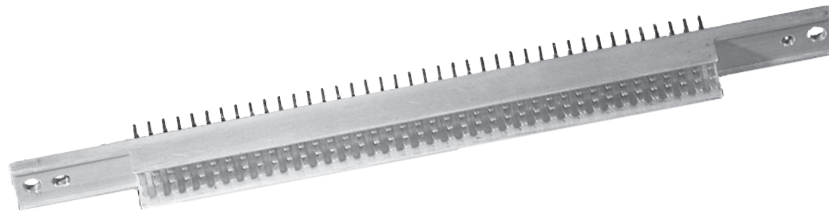


PCPHY-120P-1FT3

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 56



# PCPHZ SERIES



PCPHZ-120P-1FT3

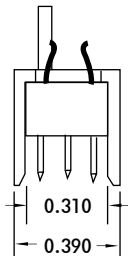
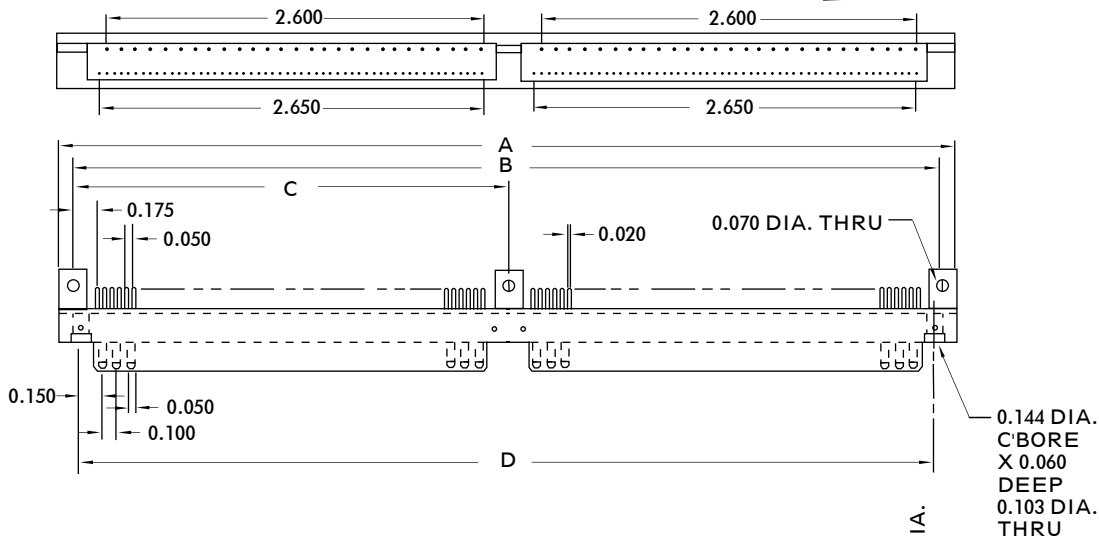
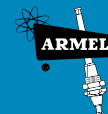
## SPECIFICATIONS

Current Rating . . . . . 3 Amperes  
 Dielectric Withstanding Voltage:  
 Contact to Contact  
 Sea Level . . . . . 1000 Volts  
 70,000 Feet. . . . . 375 Volts

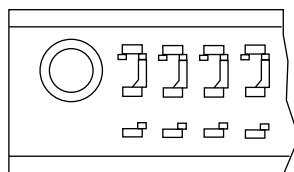
### CONTACTS:

Contact Material. . . . . Brass per QQ-B-613, 1/2 Hard, Composition 2  
 Contact Insulators. . . . . Nylon 6-6 per MIL-M-20693  
 Shroud Material. . . . . Aluminum, per QQ-A-200, Alloy 6061-T6  
 Contact Finish. . . . . Gold Plated per MIL-G-45204, Type II, Class 1  
 Over Nickel Plate per QQ-N-290, Type VII, Class 1  
 Contact Tails. . . . . Hot Solder Dipped, 60/40 Tin Lead per QQ-S-571  
 (OTHER PLATINGS AVAILABLE UPON REQUEST)  
 Shroud Finish. . . . . Chemical Conversion Coating per MIL-C-5541, Clear  
 Colorless Finish

# PCPHU- P & S SERIES

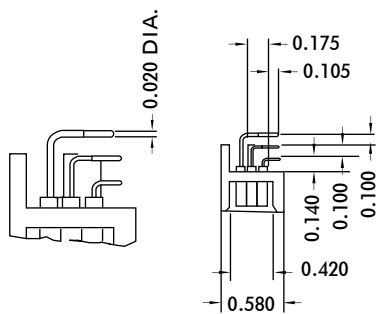


- PCPHU
- 162 P-1 L2T3
- Contact Plating
- Insulation Material
- Contact Style & Placing
- Pin Contact
- Number of Contacts
- Shroud Style

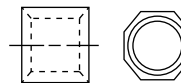
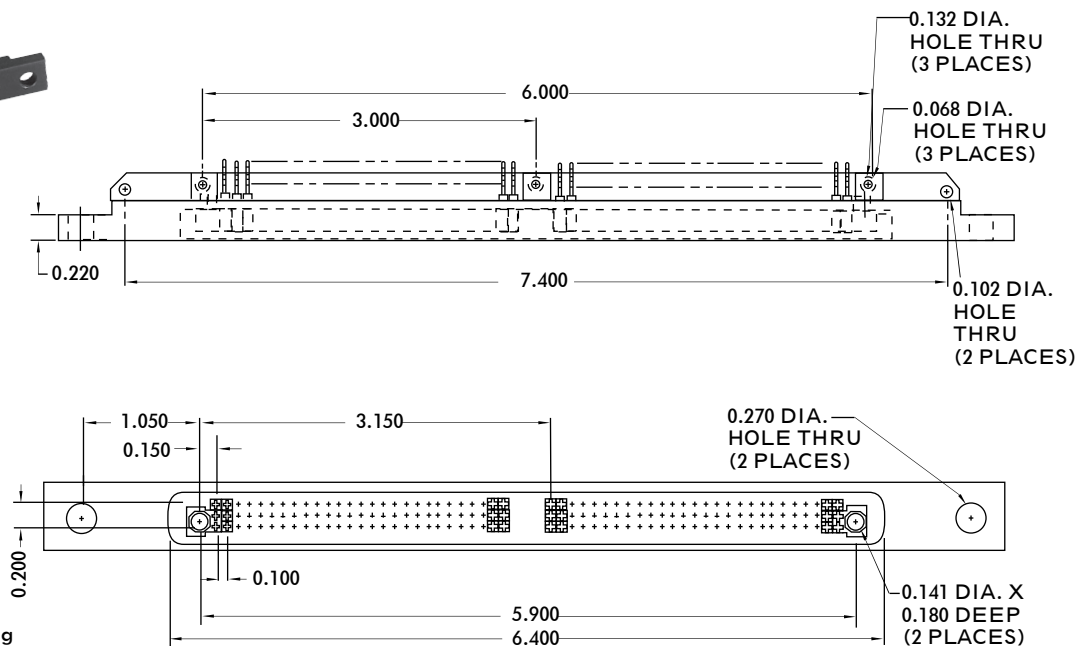


TRANSPARENT VIEW AS SEEN FROM MATING SIDE

PART NO.	A	B
1007903-1	0.520	0.322



- PCPHU
- 162S-8 T7
- Contact Plating
- Contact Style & Placing
- Socket Contact
- Number of Contacts
- Shroud Style



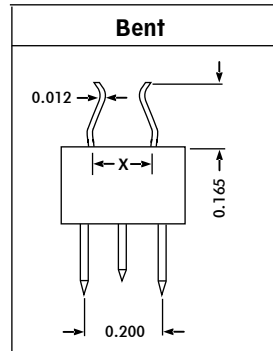
1007902-1

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 58

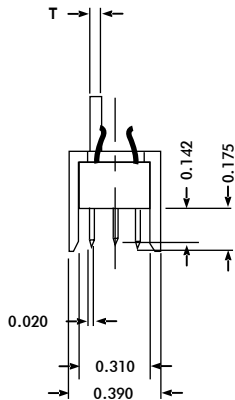


# PCPHU- P & S SERIES

## CONTACTS



T	PART NO.	X	A	B	C	D
0.050	PCPHU-162P-1T7	0.154	6.200	6.000	3.000	5.90

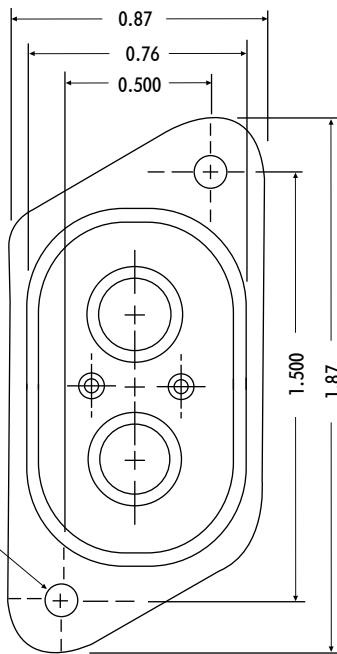


## SPECIFICATIONS

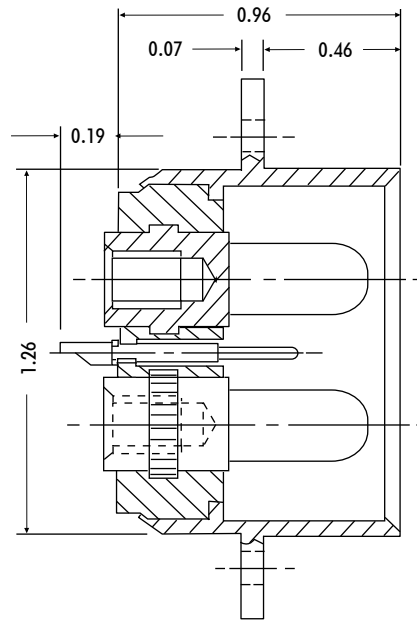
Current Rating . . . . . 3 Amperes  
 Contact to Contact  
 Sea Level . . . . . 1000 Volts  
 70,000 Feet. . . . . 375 Volts

### CONTACTS:

Socket Contact Material. . . . . Beryllium Copper per QQ-B-530, Comp A. Contacts are Low Force Insertion & Withdrawal per MIL-C-28754  
 Pin Contact Material. . . . . Brass per QQ-B-613, 1/2 Hard, Composition 2  
 Contact Insulators. . . . . Nylon per MIL-M-20693  
 Shroud Material. . . . . Aluminum, per QQ-A-200, Alloy 6061-T6  
 Socket Contact Finish. . . . . Gold Plated per MIL-G-45204, Type II, Class 1, over Gold Plate per MIL-G-45204, Type I, Class 1, over Nickel Plate per QQ-N-290, Type VII, Class 1  
 Pin Contact Finish. . . . . Gold Plate per MIL-G-45204, Type II, Class 1 Over Nickel Plate per QQ-N-290, Type VII, Class 1 (Low Stress Nickel) (OTHER PLATINGS AVAILABLE UPON REQUEST)  
 Shroud Finish. . . . . Anodized per MIL-A-8625, Type II, Class 2, Color Black



HA-2P-4PH-1L2V2



## SPECIFICATIONS

### Large Contacts

Current Rating .....	75 Amperes and/or 100 Amperes
Contact Size .....	0.250 Inch, No. 4; 0.290 Inch No.2
Material .....	Beryllium Copper, per QQ-C-530
Pin Contact .....	Molded-In, No. 10-32 thd. 0.250 min.full
Socket Contact .....	Removable, Poke Home, Solder-Cup
Removing Tool .....	No. T9090-1

### Small Contacts

Current Rating .....	7.5 Amperes
Contact Size .....	0.040 Inch
Pin Contact .....	Solder-Cup, Brass per QQ-B-626
Socket Contact .....	Crimp Removable, Phosphor Bronze per QQ-B-750
Closed Entry Sleeve .....	Brass, per QQ-B-626
Retaining Clip .....	Stainless Steel, Passivated per QQ-S-766
Terminal Accommodation .....	One no. 18, One no. 20, One or Two no. 22, Two or Three no. 24, AWG Wire
Removing Tool .....	No. T9066-1
Crimping Tool .....	No. MS 3191A
Positioner .....	No. 612192

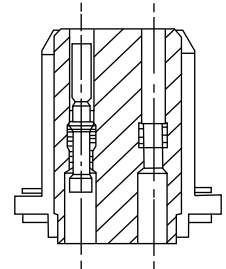
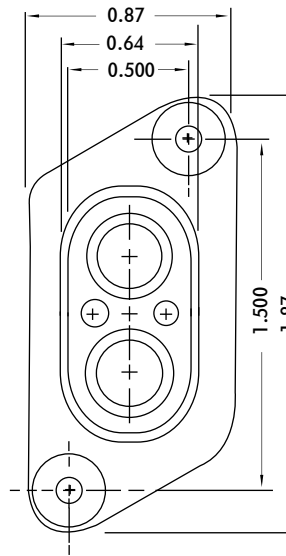
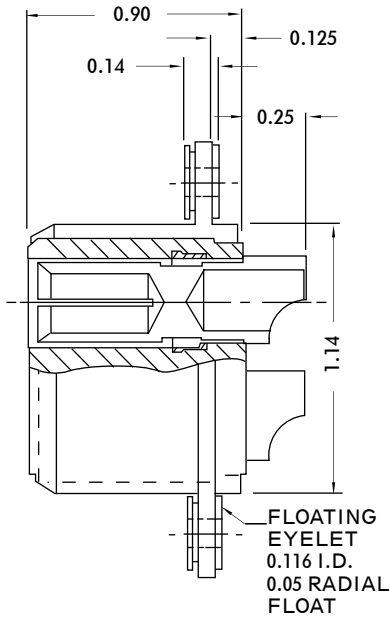
Contact Plating .....	Gold Plated (0.000050 inch) per MIL-G-45204, Type II, Class I, Grade B over Copper Plate per MIL-C-14550, Class 2 (OTHER PLATINGS ALSO AVAILABLE UPON REQUEST)
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Shell Material .....	Aluminum per QQ-A-200, Anodized Color Gold
Floating Eyelets .....	Stainless Steel, Passivated
Insulation Material .....	Diallyl Phthalate per MIL-M-14, Type SDG-F Color Black

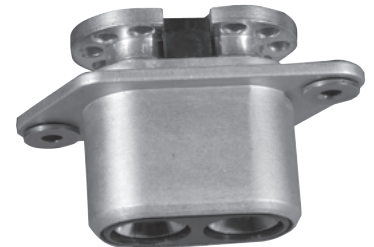




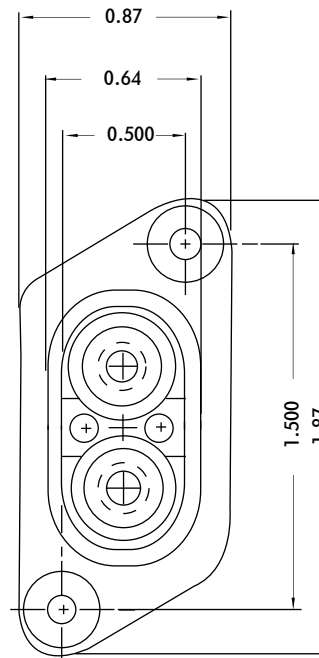
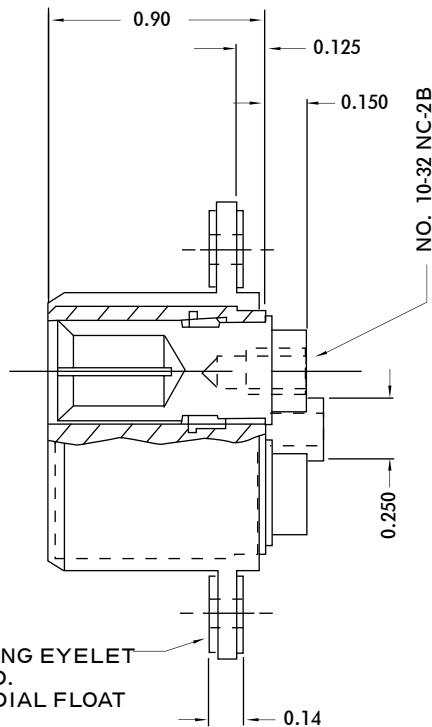
**HA-2SCK-2SH-1L2V2**



Crimp  
Removable Contacts

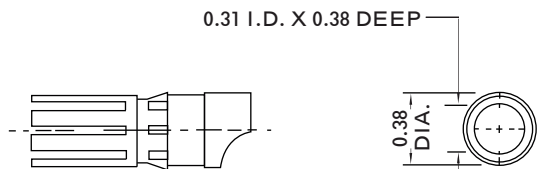
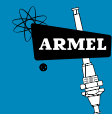


**HA-2SCKD-9-2SH-1L2V2**

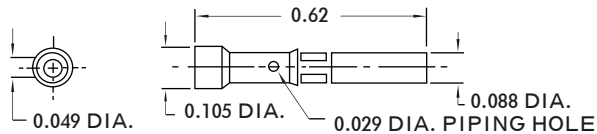


FOR TOOLS AND ACCESSORIES SEE PAGE 61  
FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 59

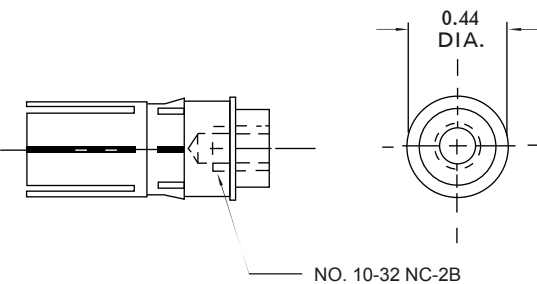
# HA 2 SERIES



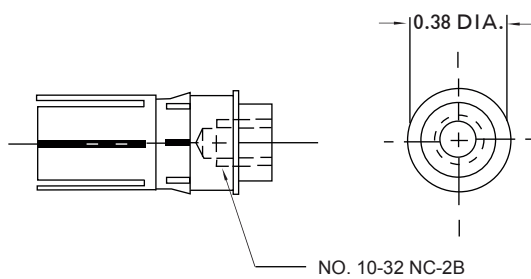
CONTACT NO. 1005841-1V2



CONTACT NO. 1007003-1V2



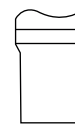
CONTACT NO. 1005982-1V2 OR T3  
(100 AMP CONTACT)



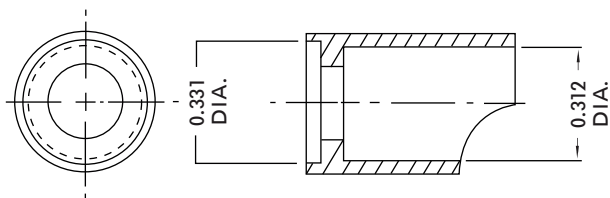
CONTACT NO. 1005881-1V2 OR T3  
(75 AMP CONTACT)



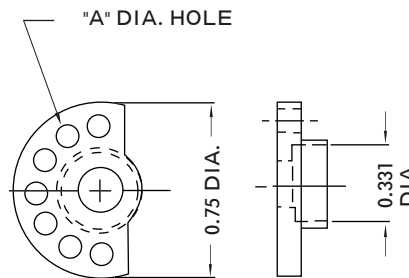
Removing Tool  
No. T9066-1



Removing Tool  
No. T9090-1



ADAPTER TO BE USED WITH CONTACT NO. 1005881-1V2.



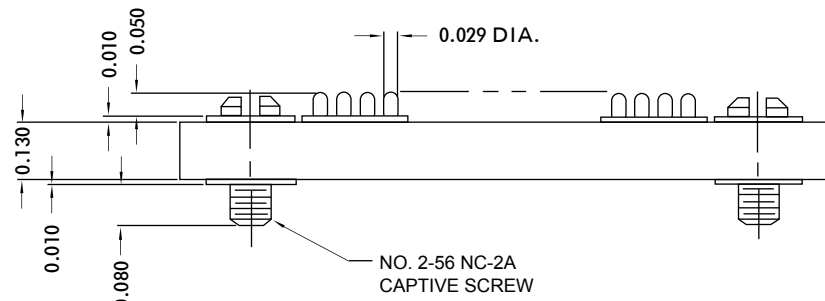
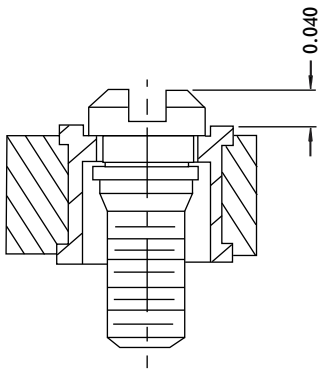
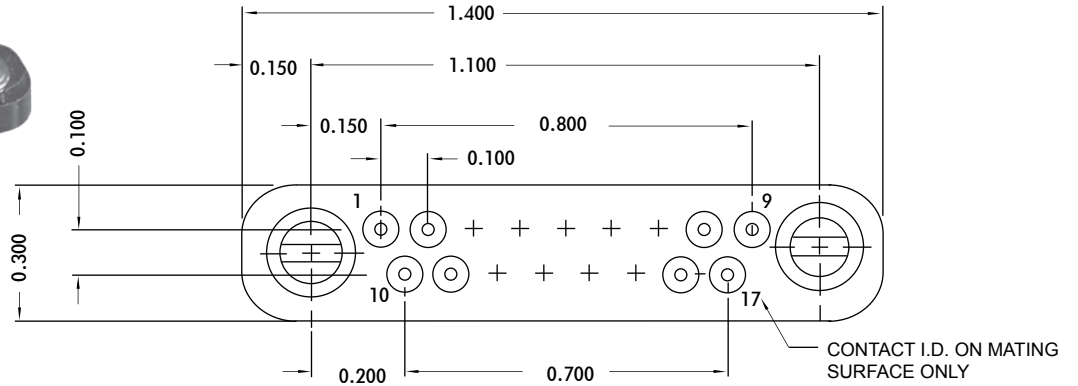
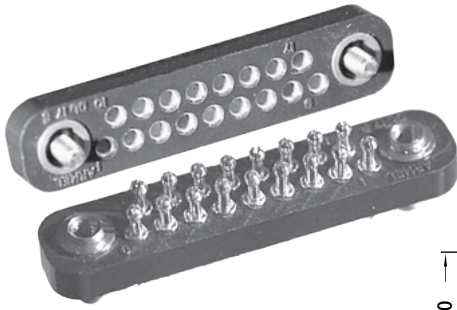
CAN BE MOUNTED TO CONTACT NO.  
1005881-1V2 OR 1005982-1V2  
FOR MULTIPLE WIRE CONNECTIONS

PART NO'S.	"A"	AMOUNT OF HOLES
1005882V2	0.098	7
1005887-1V2	0.136	3
1005888-1V2	0.136	5

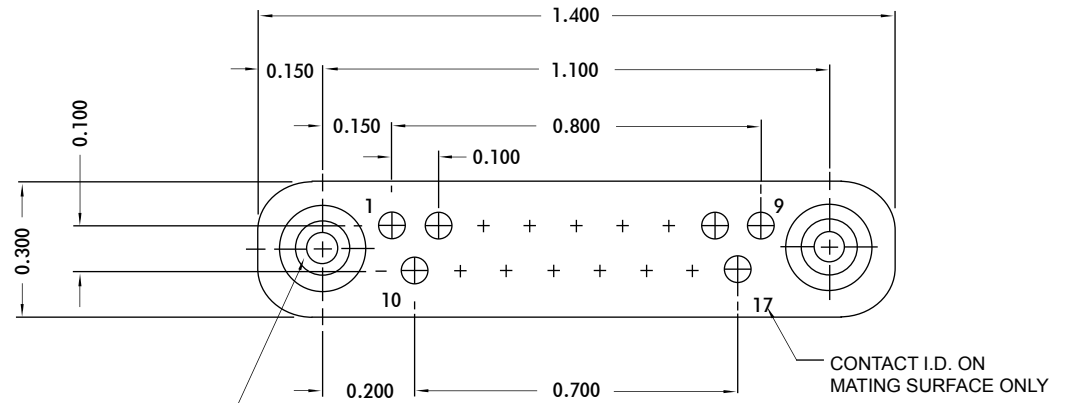
FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 59



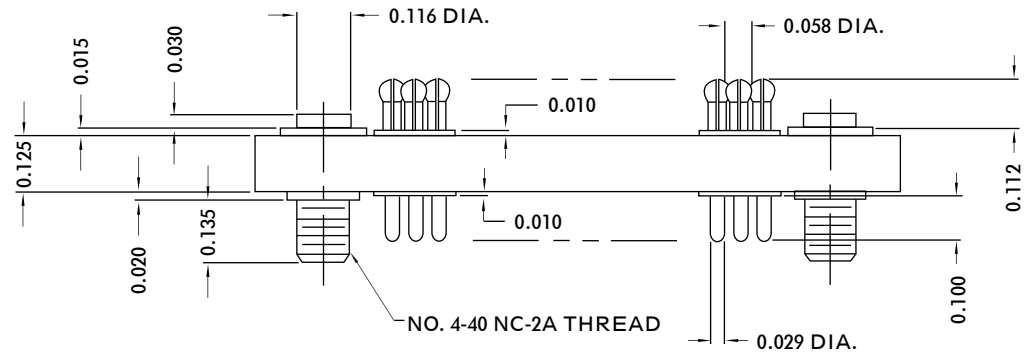
# DL 17 SERIES



DL 17S-34 L2FT3

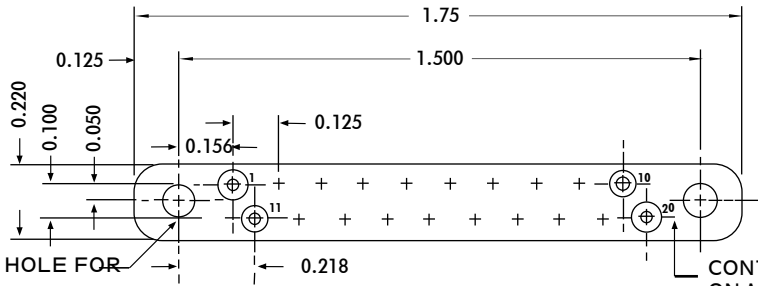
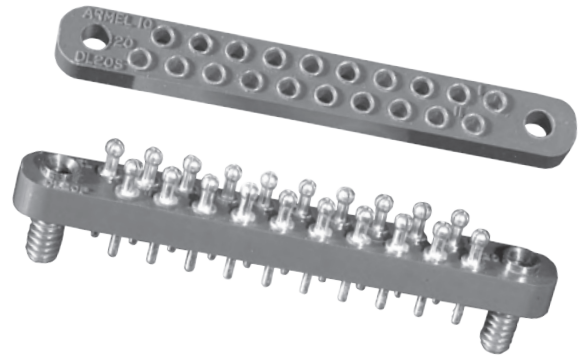


NO. 2-56 NC-2B THREAD



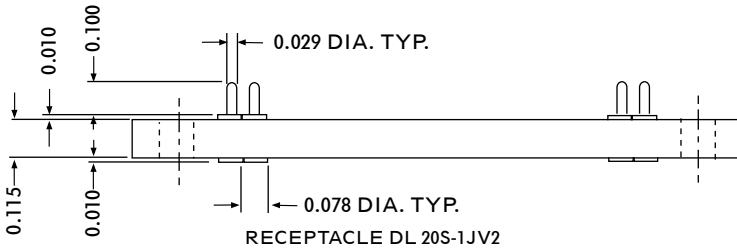
DL 17P-22 L2FT3

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 63

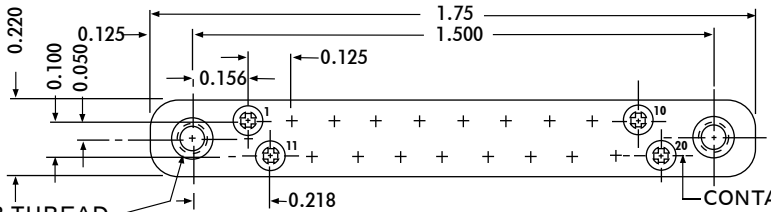


CLEARANCE HOLE FOR NO. 2 SCREW. (2 PLACES)

CONTACT IDENTIFICATION ON MATING FACE ONLY.

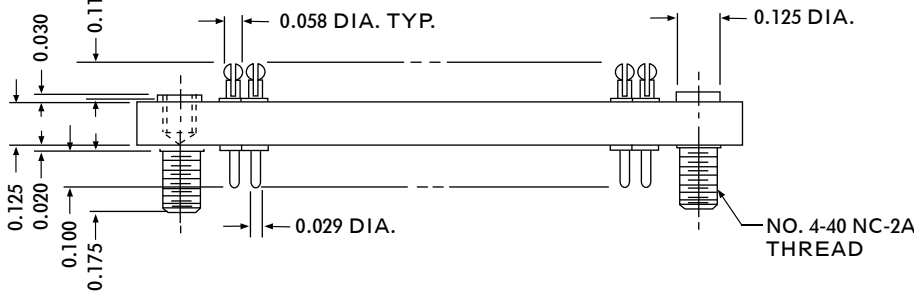


RECEPTACLE DL 20S-1JV2



NO. 2-56 NC-2B THREAD 0.100 MIN. FULL THREAD (2 PLACES)

CONTACT IDENTIFICATION ON MATING FACE ONLY



PLUG DL 20P-1JV2

## SPECIFICATIONS

### Contact Rating

Socket Contacts . . . . . Brass, 1/2 Hard per QQ-B-626  
Pin Contacts . . . . . Beryllium Copper, per QQ-C-530, Condition A

Contact Finish . . . . . Gold Plated (0.00005 Inch) per MIL-G-45204, Type II, Class I over Copper Plate

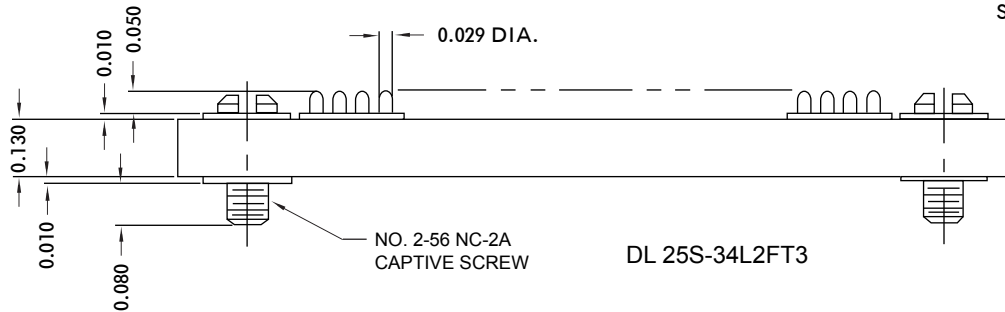
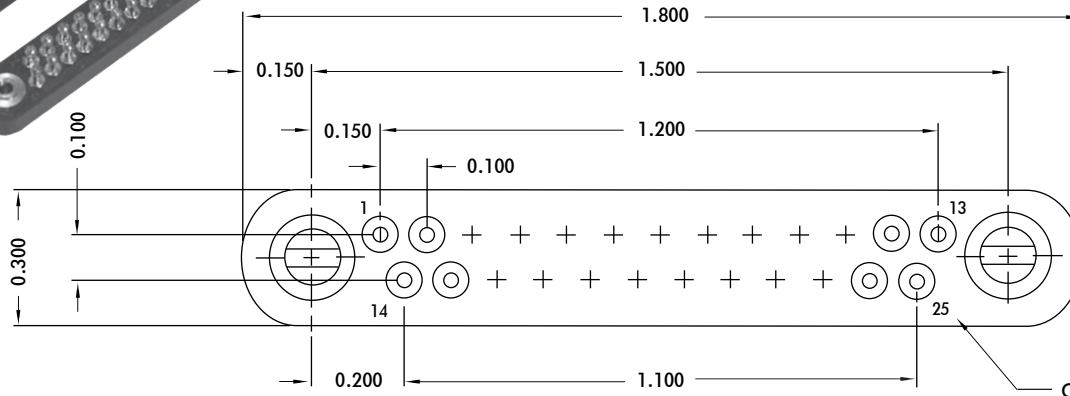
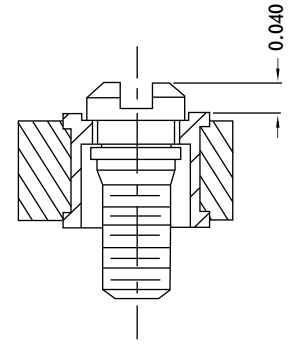
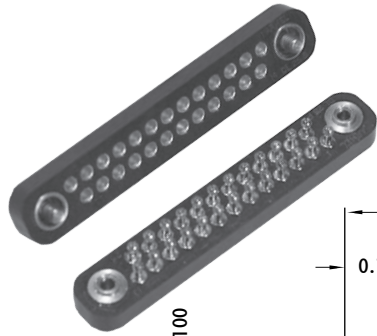
Insulation Material . . . . . Diallyl Phthalate, Glass Filled per MIL-M-14, Type GDI-30F

Mounting Hardware . . . . . Stainless Steel, Passivated per QQ-P-35

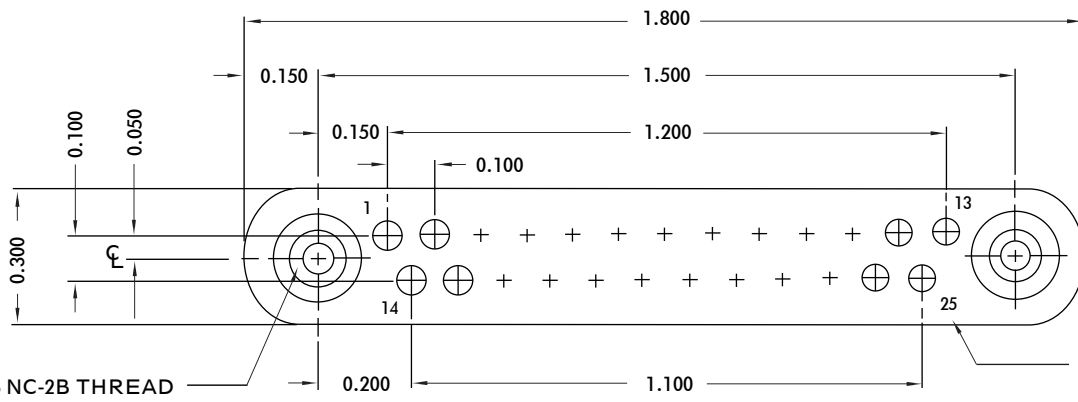
Retaining Rings (DL74) . . . . . Beryllium Copper, Cadmium Plated per QQ-P-416, Type II, Class 2



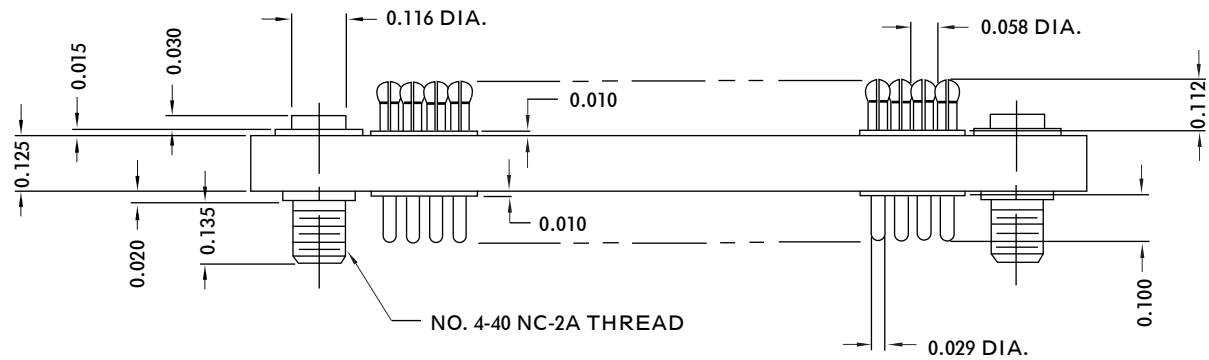
# DL 25 SERIES



DL 25S-34L2FT3



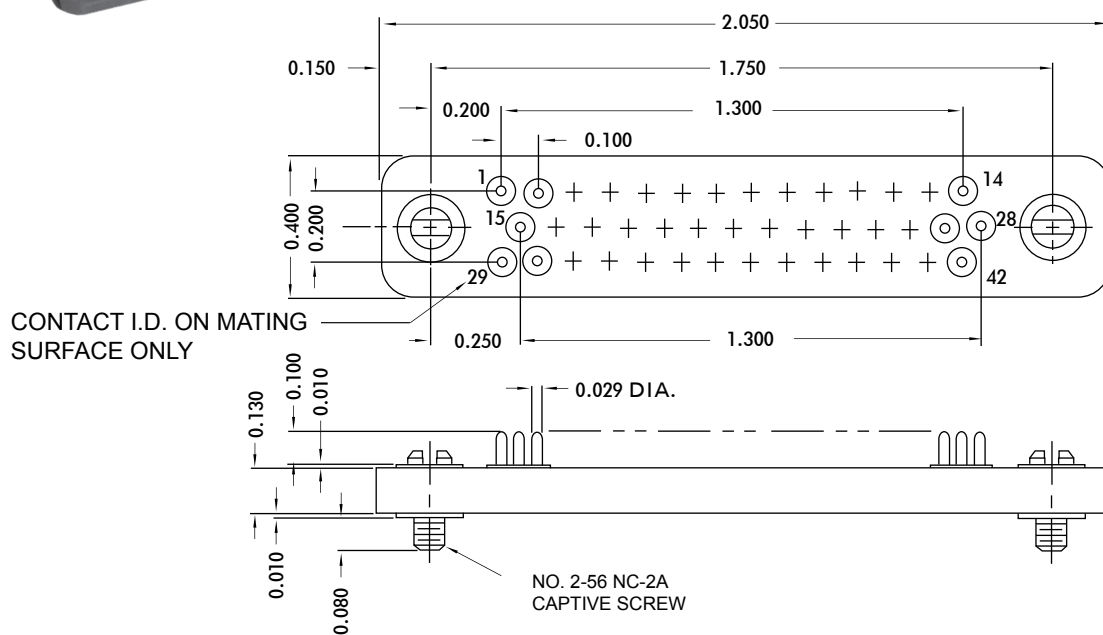
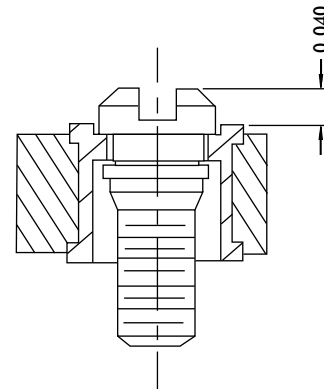
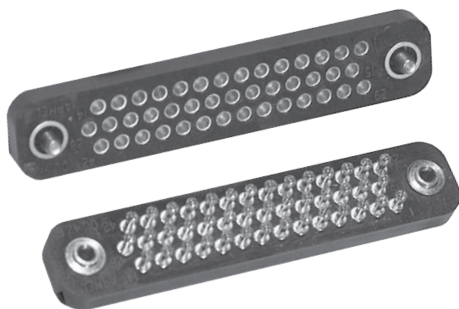
NO. 2-56 NC-2B THREAD



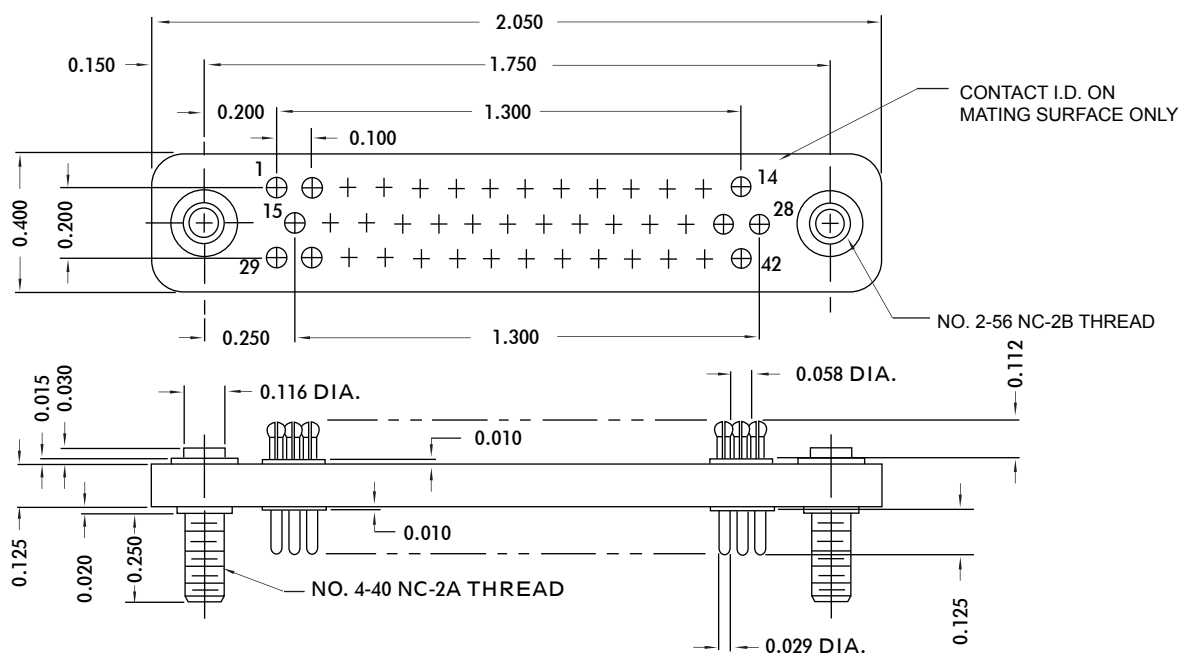
DL 25P-22L2FT3

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 63

# DL 42 SERIES



DL 42S-34L2FT3

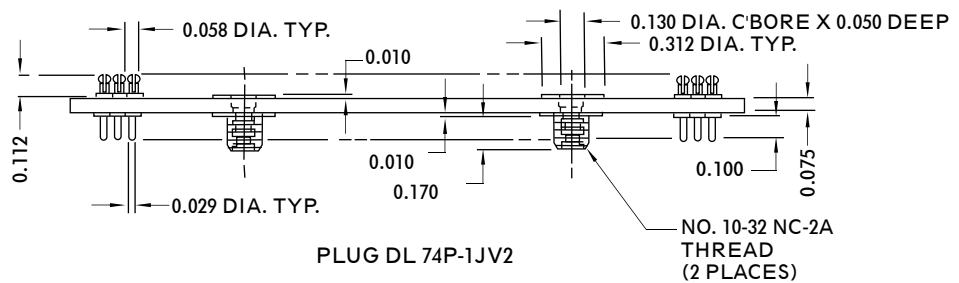
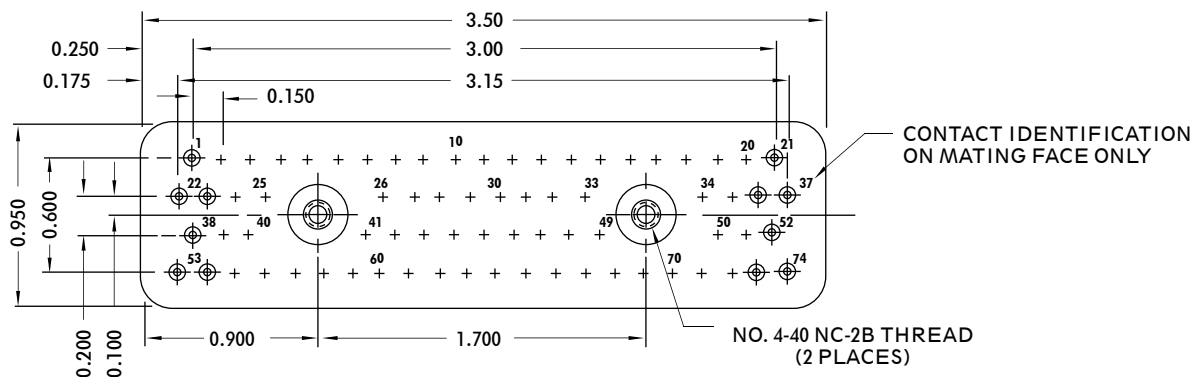
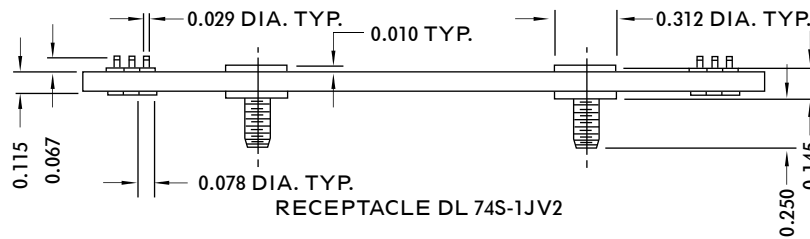
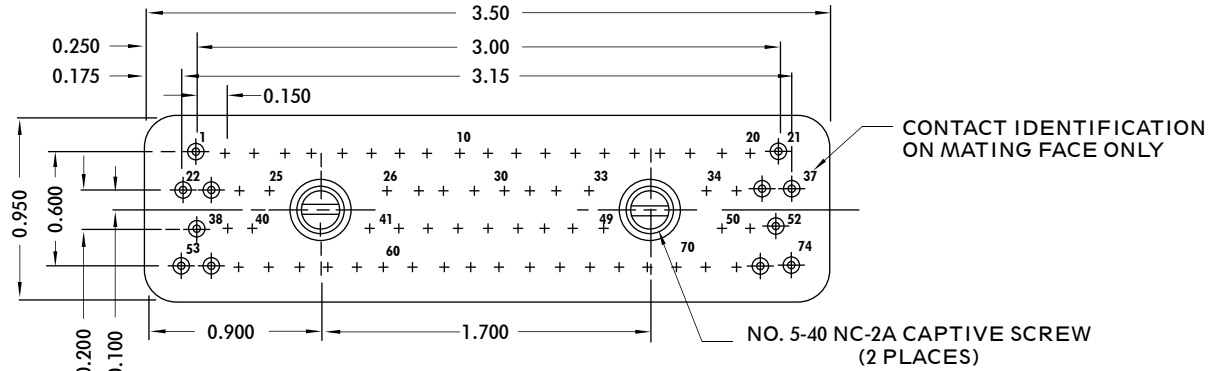
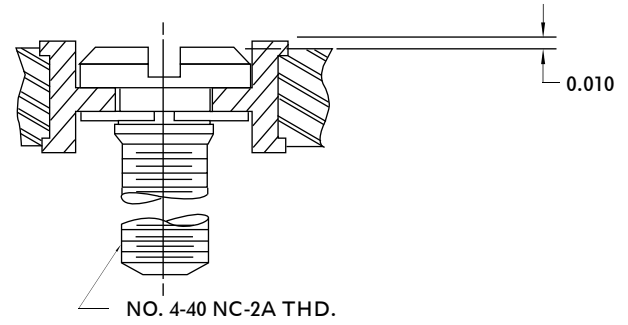
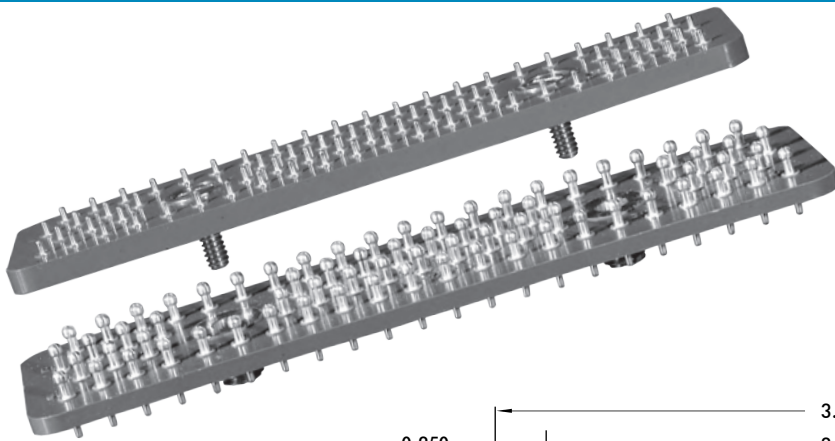


DL 42P-22L2FT3

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 63

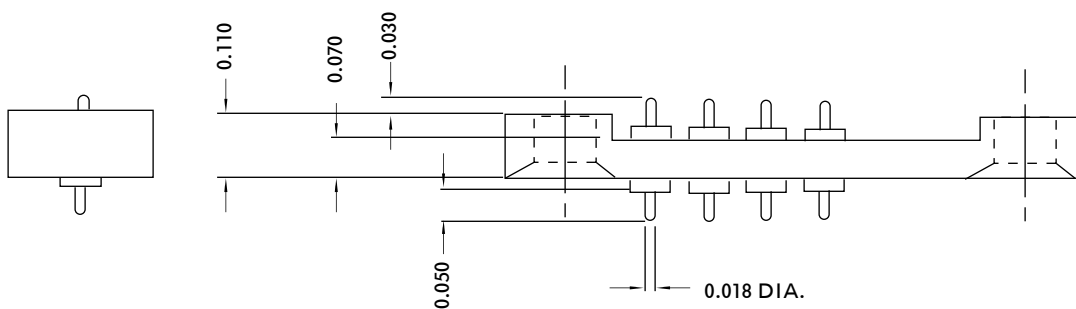
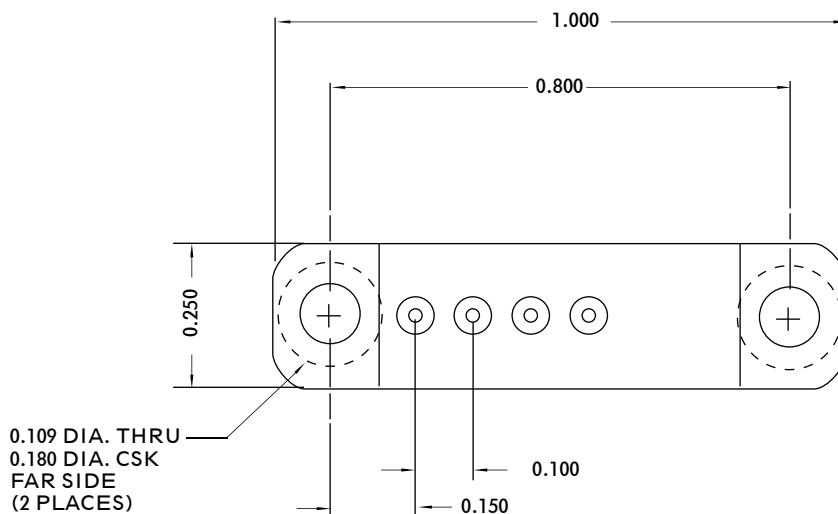
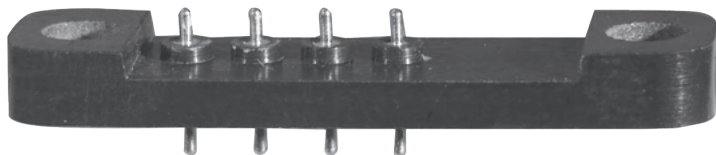


# DL 74 SERIES



FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 63

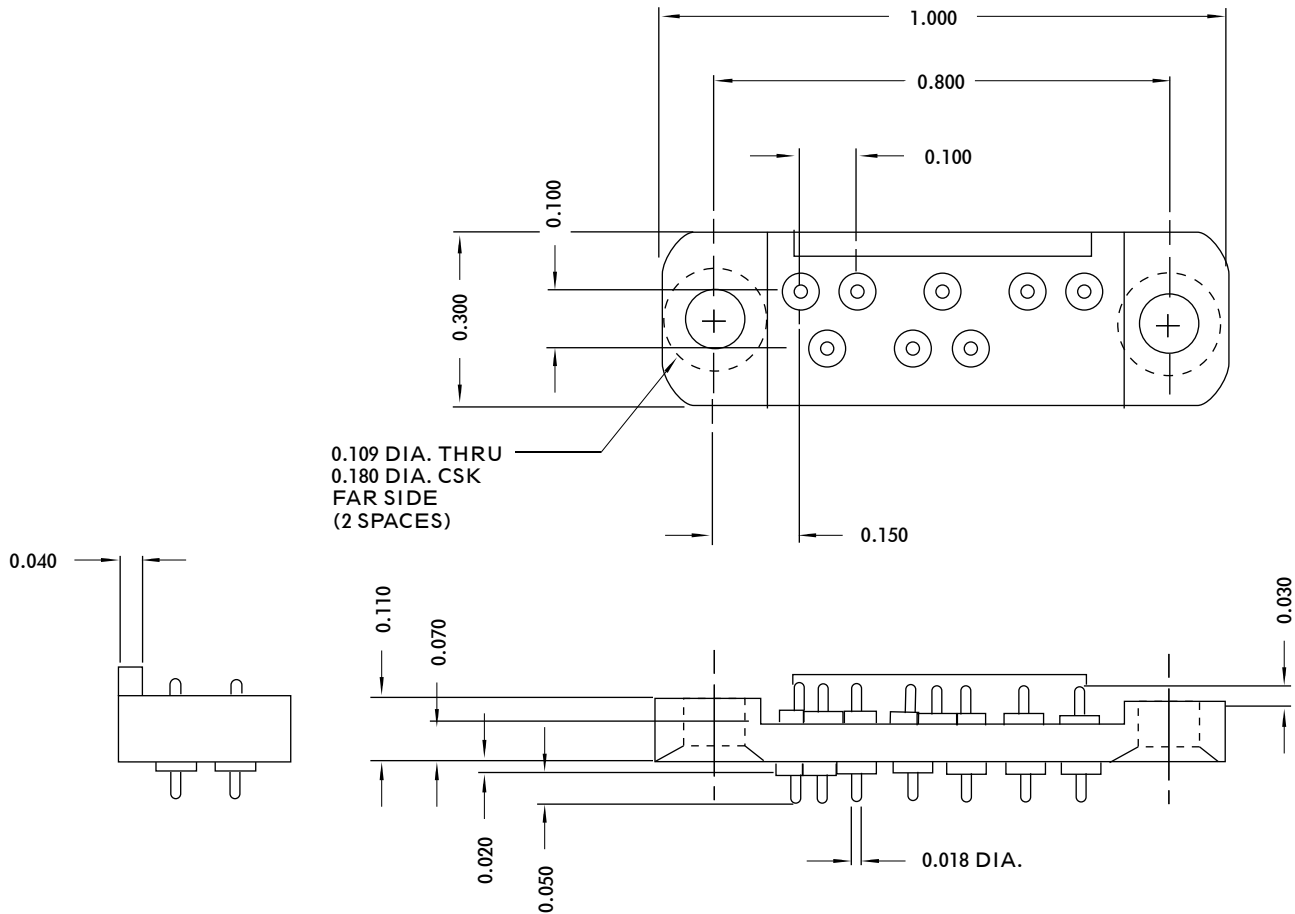
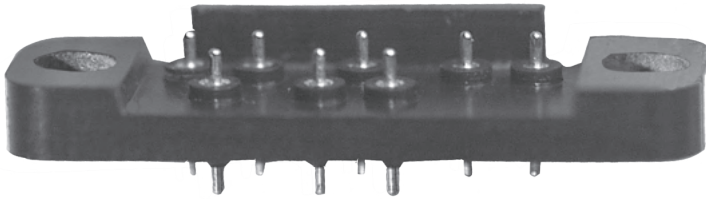
# DPC 4 SERIES



DPC-4-L2T3

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 68





DPC-8L2T3

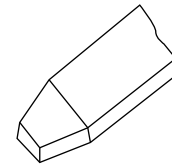
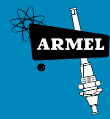
### SPECIFICATIONS

Current Rating . . . . . 1 Ampere  
Dielectric Withstanding Voltage . . . . . 500 Volts

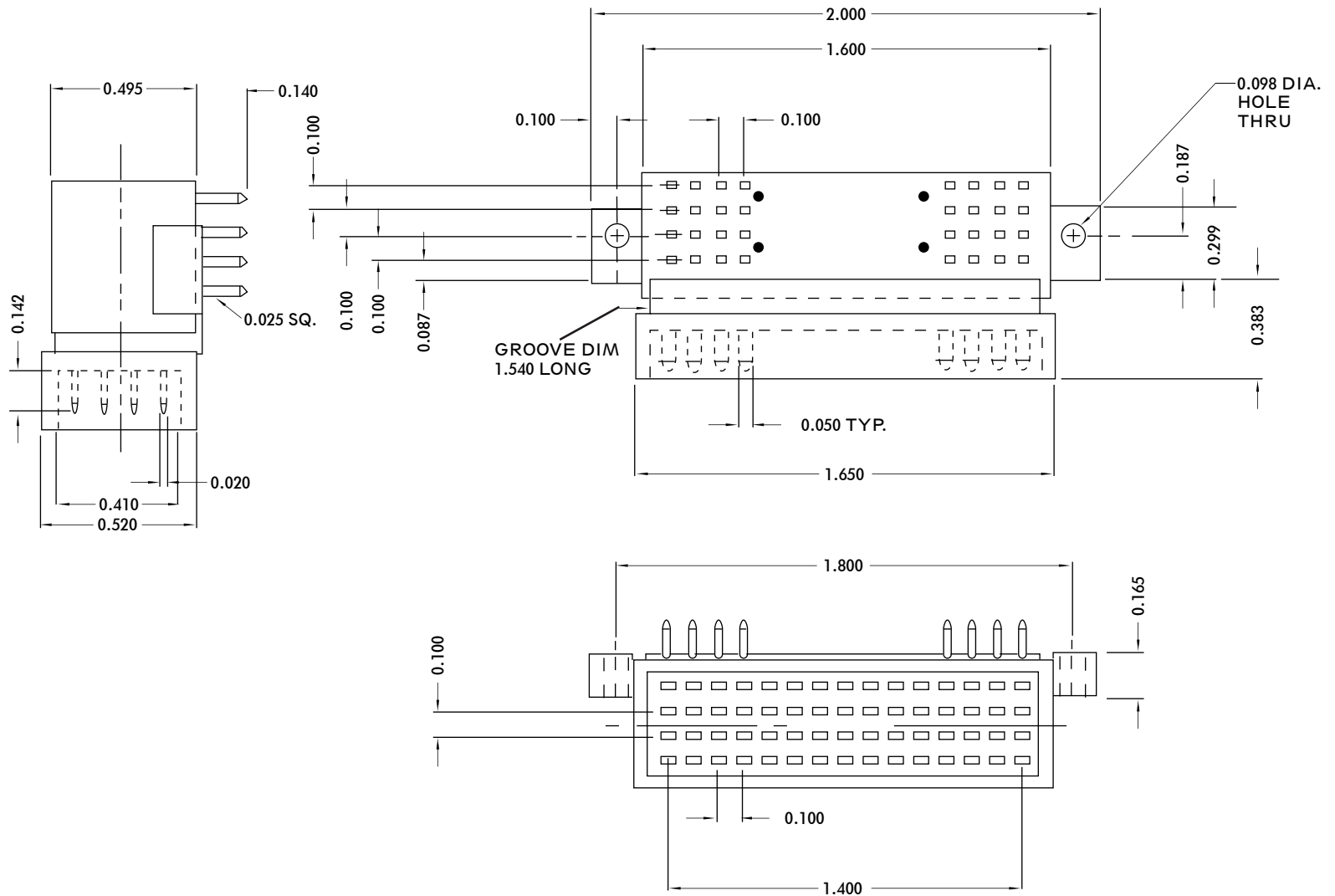
**CONTACTS :**

Contact Material . . . . . Brass. Per ASTM-B-16/16M  
Contact Finish . . . . . Gold Plated per MIL-G-45204, Type II, Class 1  
Over Nickel Plate per QQ-N-290, Type VII, Class 1  
Insulation Material . . . . . Diallyl Phthalate per MIL-M-14, Type SDG-F, Color Black

# WFP 60 SERIES



BLADE CONTACTS



FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 70



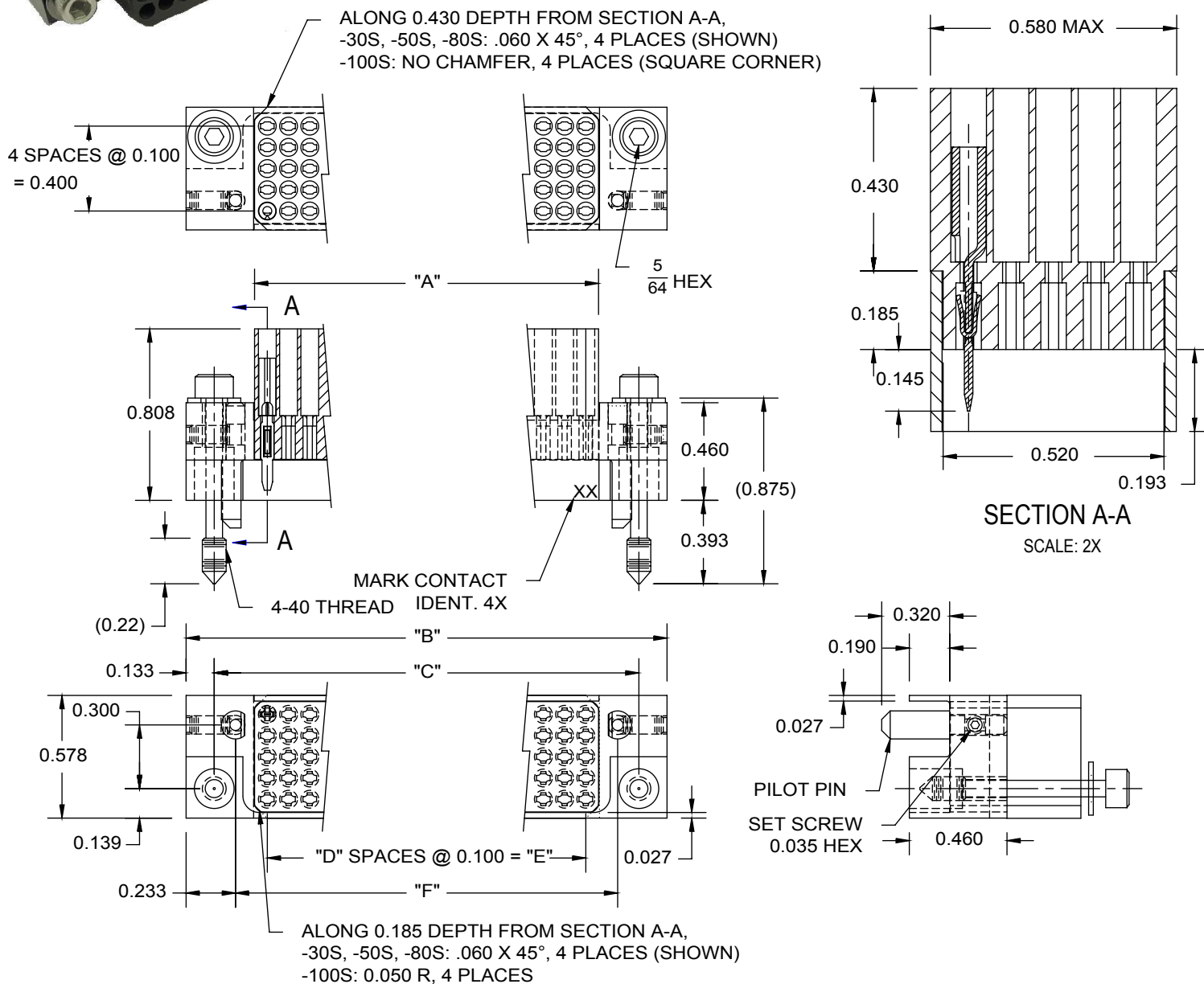
# PCPHS SERIES



**CONNECTOR MATES TO NAFI STYLE BACKPLANE PER MIL-C-28859 FEATURING CRIMP, REMOVABLE CONTACTS, ASSEMBLY MEETS MIL-C-28754; 30 (-30S-), 50 (-50S-), 80 (-80s-), OR 100 (-100S-) CONTACTS PROVIDED**



## DIMENSIONS



PART NO.	"A"	"B"	"C"	"D"	"E"	"F"
PCPHS-30S-1L2T3	0.620	1.265	1.000	5	0.500	0.800
PCPHS-50S-1L2T3	1.020	1.665	1.400	9	0.900	1.200
PCPHS-80S-1L2T3	1.620	2.265	2.000	15	1.500	1.800
PCPHS-100S-1L2T3	2.020	2.665	2.400	19	1.900	2.200

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE CATALOG PAGE 72



## SPECIFICATIONS

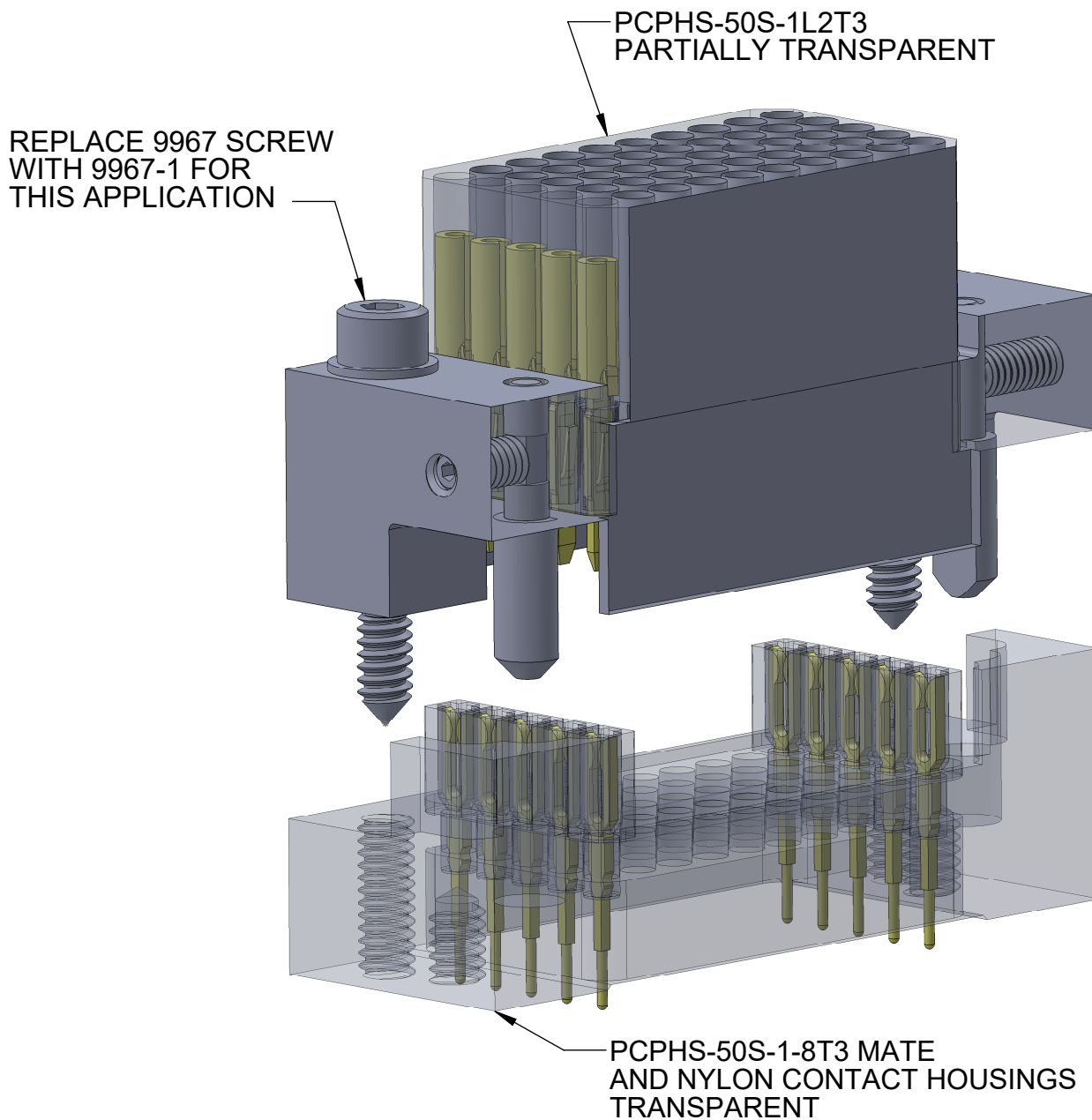
### ELECTRICAL

Current Rating.....3.0 Amperes For 20-24 AWG Wire  
 Dielectric Withstanding Voltage.....  
 Contact to Contact  
   Sea Level.....1500 VRMS @ 60 Hz  
   70,000 Feet.....350 VRMS @ 60 Hz

### MECHANICAL

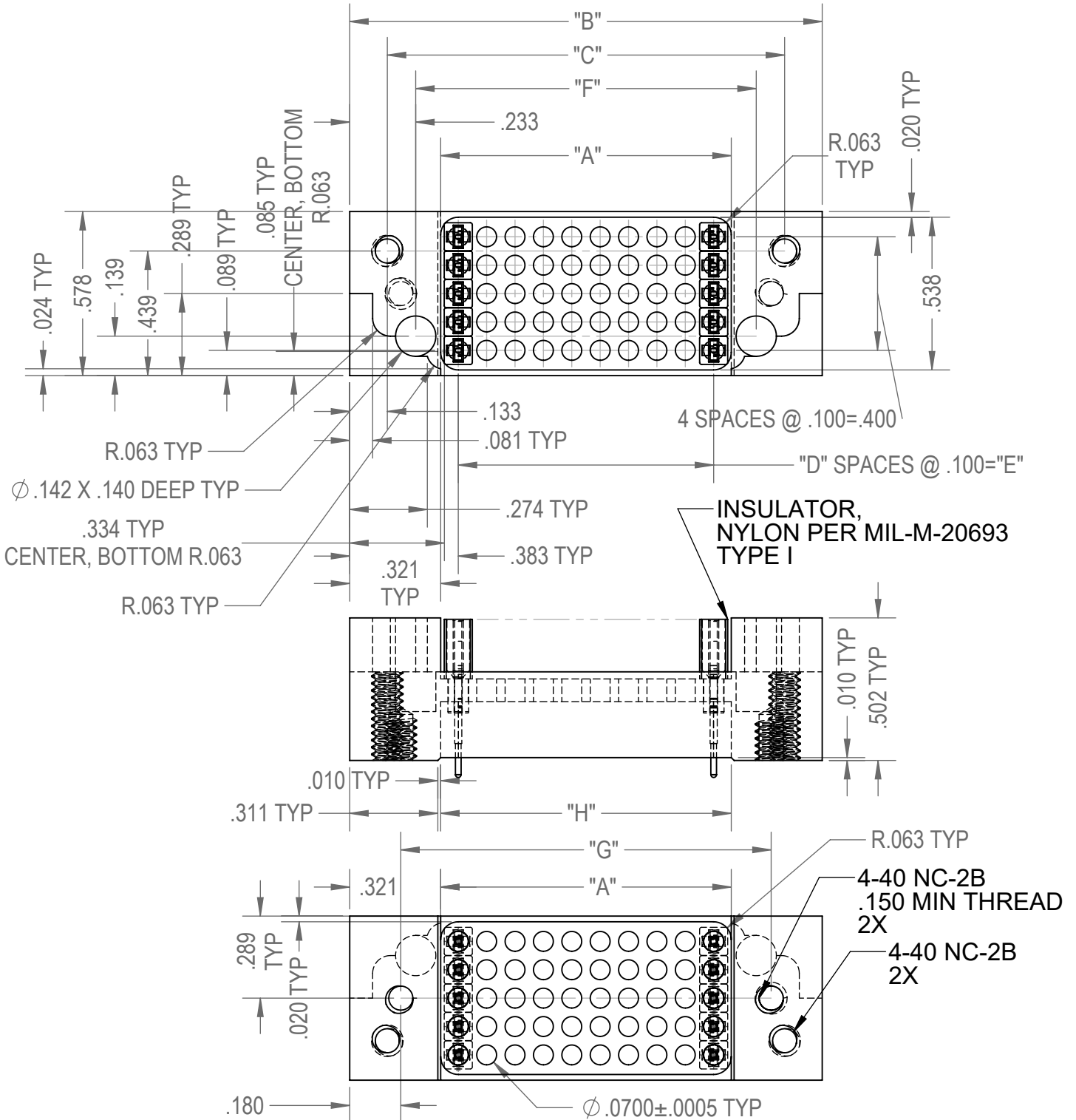
Wiring Terminal Accommodation.....20-24 AWG Wire  
 Contact Material & Finish.....Per MIL-C-28754/15  
 Housing Material & Finish.....Aluminum Type 6061 T6511 Per AMS QQ-A-200/8,  
   Anodize Per MIL-A-8625 Type II, Class 2, Color: Black  
 Mounting Hardware Material & Finish....CRES, Class 304, COND A Per AMS QQ-S-763, Passivated  
   Per AMS2700  
 Guide/Pilot Pins Material & Finish.....CRES, Class 303, COND A Per ASTM A582, Passivated  
   Per AMS2700  
 Insulating Material.....Glass Filled Diallyl Phthalate Per MIL-M-14/ASTM D 5948-96,  
   Type GDI-30F, Color: Black  
 Contact Removal Tool.....Armel Electronics Inc. PN T8050-1

## PCPHS MATE FOR TEST SETS



FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 76

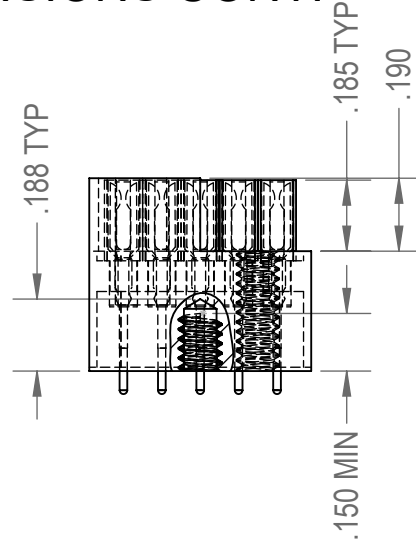
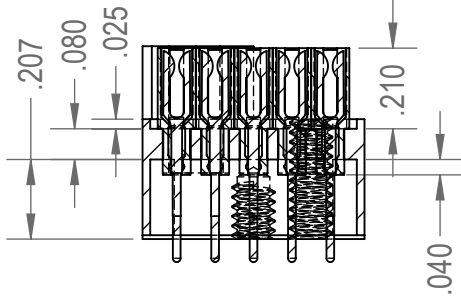
## PCPHS MATE DIMENSIONS



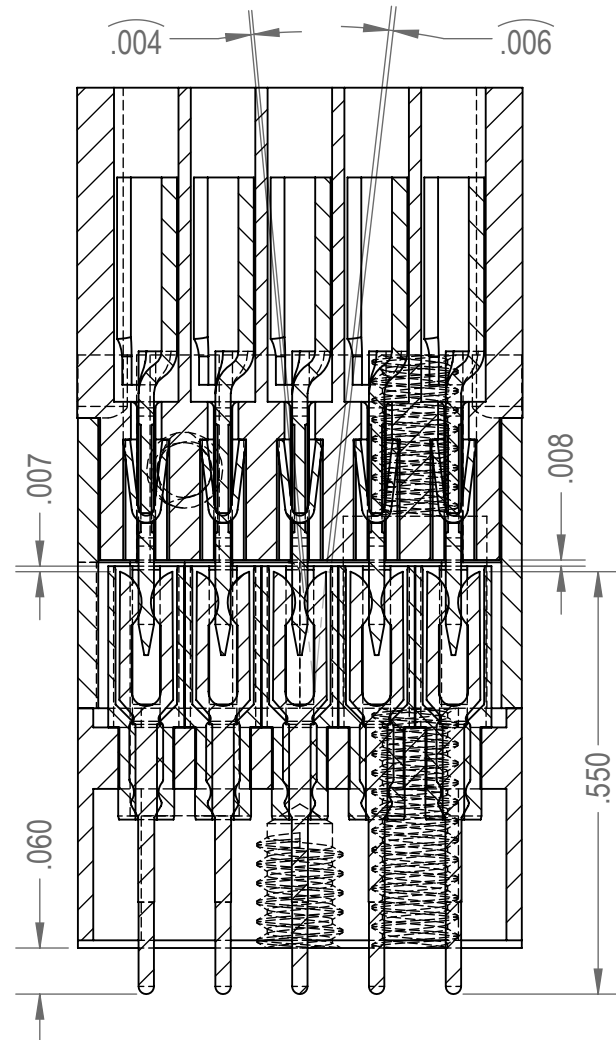
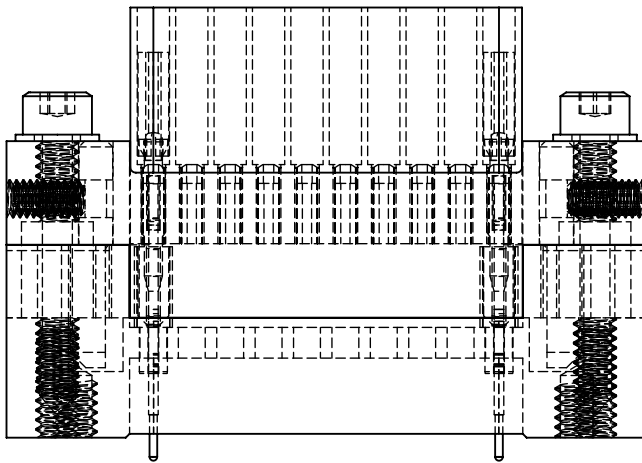
PART NO.	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"
PCPHS-30S-1-1L2T3	0.624	1.265	1.000	5	0.500	0.800	0.905	0.624
PCPHS-50S-1-1L2T3	1.024	1.665	1.400	9	0.900	1.200	1.305	1.024 (SHOWN)
PCPHS-80S-1-1L2T3	1.624	2.265	2.000	15	1.500	1.800	1.905	1.624
PCPHS-100S-1-1L2T3	2.024	2.665	2.400	19	1.900	2.200	2.305	2.024

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 76

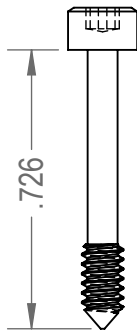
## PCPHS MATE DIMENSIONS CONT.



SHOWING UNPLATED CONTACTS



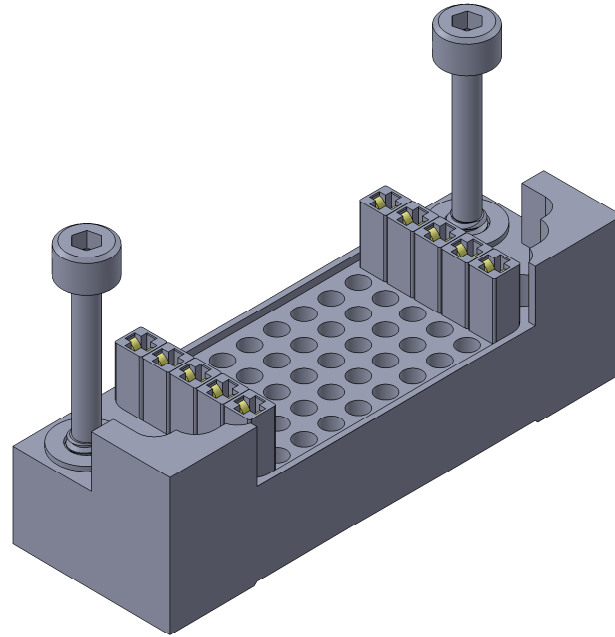
9967 HARDWARE MODIFICATION  
TO 9967-1



MATERIAL:  
CRES, CLASS 302, 304, OR 305, COND A PER  
AMS QQ-S-763.  
FINISH:  
PASSIVATED PER AMS2700.

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 76





## MATE SPECIFICATIONS

### ELECTRICAL

Current Rating.....	3.0 Amperes For 20-24 AWG Wire
Dielectric Withstanding Voltage.....	Contact to Contact
Sea Level.....	1500 VRMS @ 60 Hz
70,000 Feet.....	350 VRMS @ 60 Hz

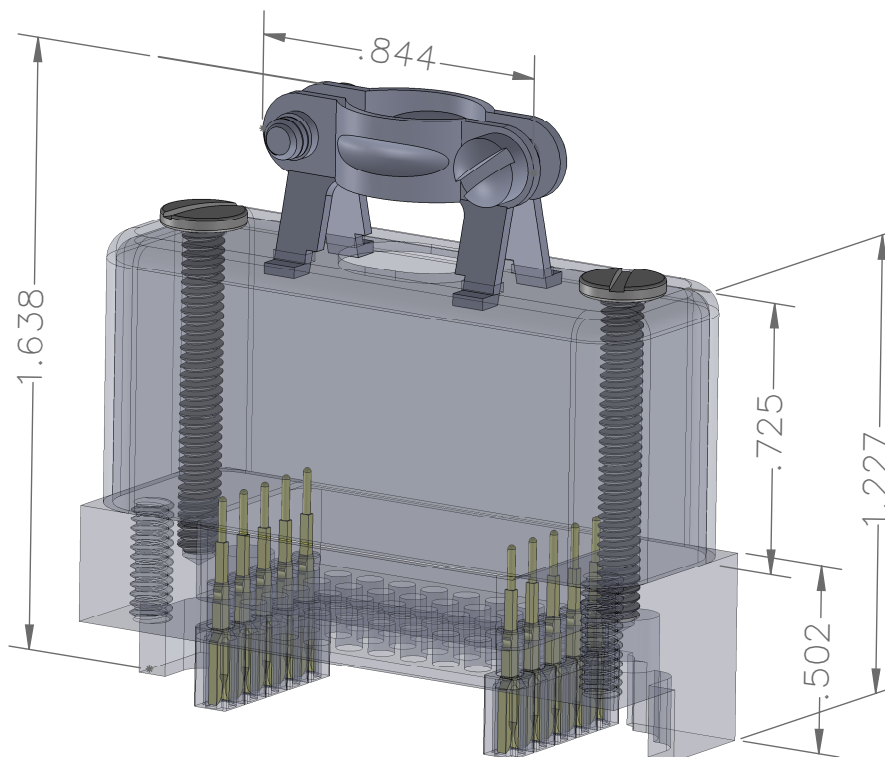
### MECHANICAL

Wiring Terminal Accommodation.....	20-24 AWG Wire
Contact Material & Finish.....	Beryllium Copper Per QQ-C-533, Minimum Hardness; Cobalt Gold Plate (0.000025 IN.MIN.THK.) Grade C Over Gold Plate (24 Carat Plate) (0.000025 IN.MIN.THK.) Per MIL-DTL-45204, Type I, Grade A Over (0.0001 IN.MIN.THK) Nickel Plate Per QQ-N-290, Class 1 (Low Stress Nickel) Over (0.0001 IN.MIN.THK.) Copper Plate Per MIL-C-14550, Class 4.
Housing Material & Finish.....	Aluminum Type 6061 T6511 Per AMS QQ-A-200/8, Anodize Per MIL-A-8625 Type II, Class 2, Color: Black
Mounting Hardware Material & Finish....	CRES, Class 304, COND A Per AMS QQ-S-763, Passivated Per AMS2700
Insulating Material.....	Nylon Per MIL-M-20693, Type I.

# PCPHS SERIES



PCPHS MATE WITH SHELL AND SMALL OPENING FOR CABLING  
FOR NON-BOARD TEST APPLICATIONS  
AVAILABLE FOR ALL PCPHS SIZES

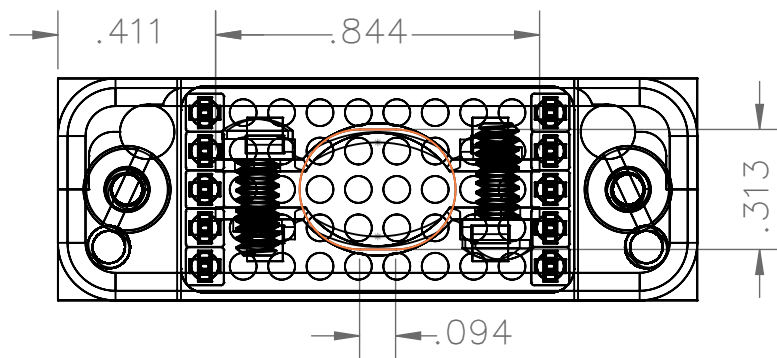


SHELL;  
MATERIAL:  
ALUMINUM TYPE 6061 T6, T6510,  
OR T6511 PER AMS QQ-A-200/8,  
OR 6061-T6 OR T651 PER AMS 4027  
FINISH:  
ANODIZE PER MIL-A-8625, TYPE II

CABLE CLAMP;  
MATERIAL:  
ALUMINUM 52S  
FINISH:  
ANODIZE PER MIL-A-8625, TYPE I

SHELL MOUNTING HARDWARE;  
MATERIAL:  
CRES, 18-8 STAINLESS PER  
AMS QQ-S-763  
FINISH:  
PASSIVATED PER AMS2700

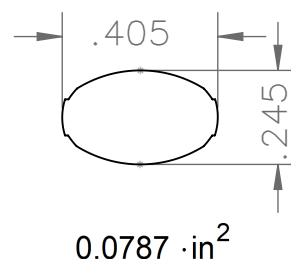
CABLE CLAMP HARDWARE;  
MATERIAL:  
BRASS  
FINISH:  
CAD PLATE, GOLD IRIDITE FINISH  
PER QQ-P-416, TYPE II



SURFACE AREA OPENING OF SHELL (ORANGE):

$$\pi \cdot \left( \frac{.3125 \cdot \text{in}}{2} \right)^2 + .094 \cdot \text{in} \cdot .3125 \cdot \text{in} = 0.106 \cdot \text{in}^2$$

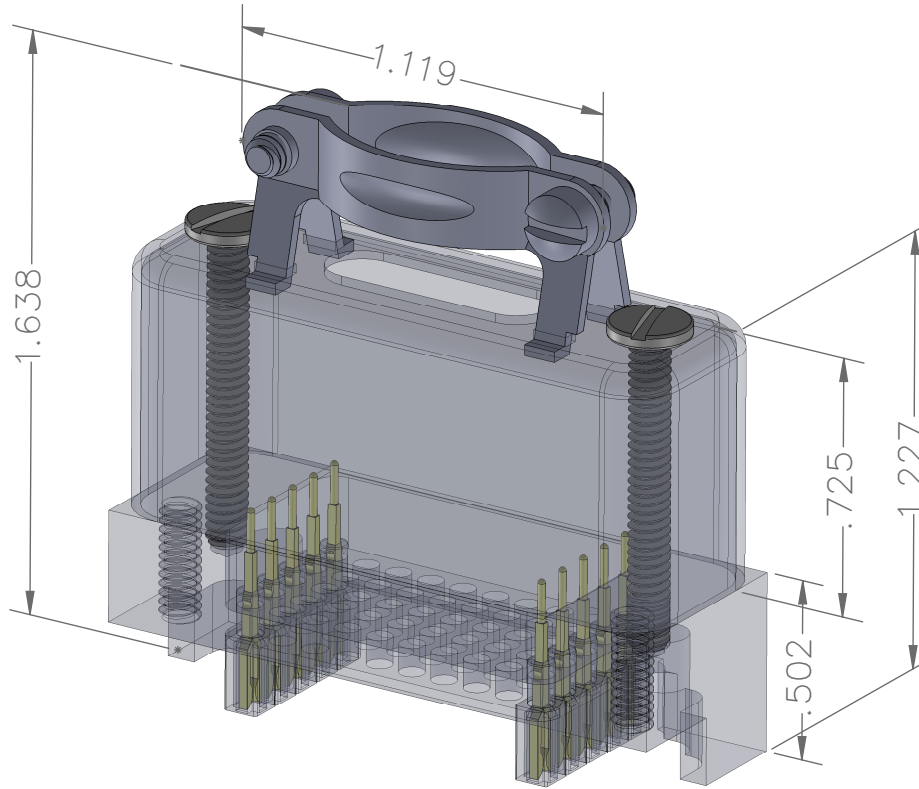
SURFACE AREA AVAILABLE WITH CABLE CLAMP:





# PCPHS SERIES

PCPHS MATE WITH SHELL AND LARGER OPENING FOR CABLING  
FOR NON-BOARD TEST APPLICATIONS  
AVAILABLE FOR ALL PCPHS SIZES

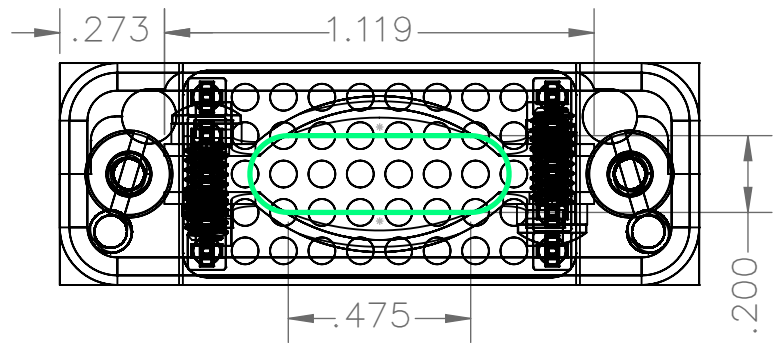


SHELL;  
MATERIAL:  
ALUMINUM TYPE 6061 T6, T6510,  
OR T6511 PER AMS QQ-A-200/8,  
OR 6061-T6 OR T651 PER AMS 4027  
FINISH:  
ANODIZE PER MIL-A-8625, TYPE II

CABLE CLAMP;  
MATERIAL:  
ALUMINUM 52S  
FINISH:  
ANODIZE PER MIL-A-8625, TYPE I

SHELL MOUNTING HARDWARE;  
MATERIAL:  
CRES, 18-8 STAINLESS PER  
AMS QQ-S-763  
FINISH:  
PASSIVATED PER AMS2700

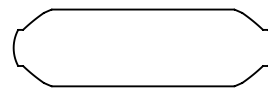
CABLE CLAMP HARDWARE;  
MATERIAL:  
BRASS  
FINISH:  
CAD PLATE, GOLD IRIDITE FINISH  
PER QQ-P-416, TYPE II



SURFACE AREA OPENING OF SHELL (GREEN):

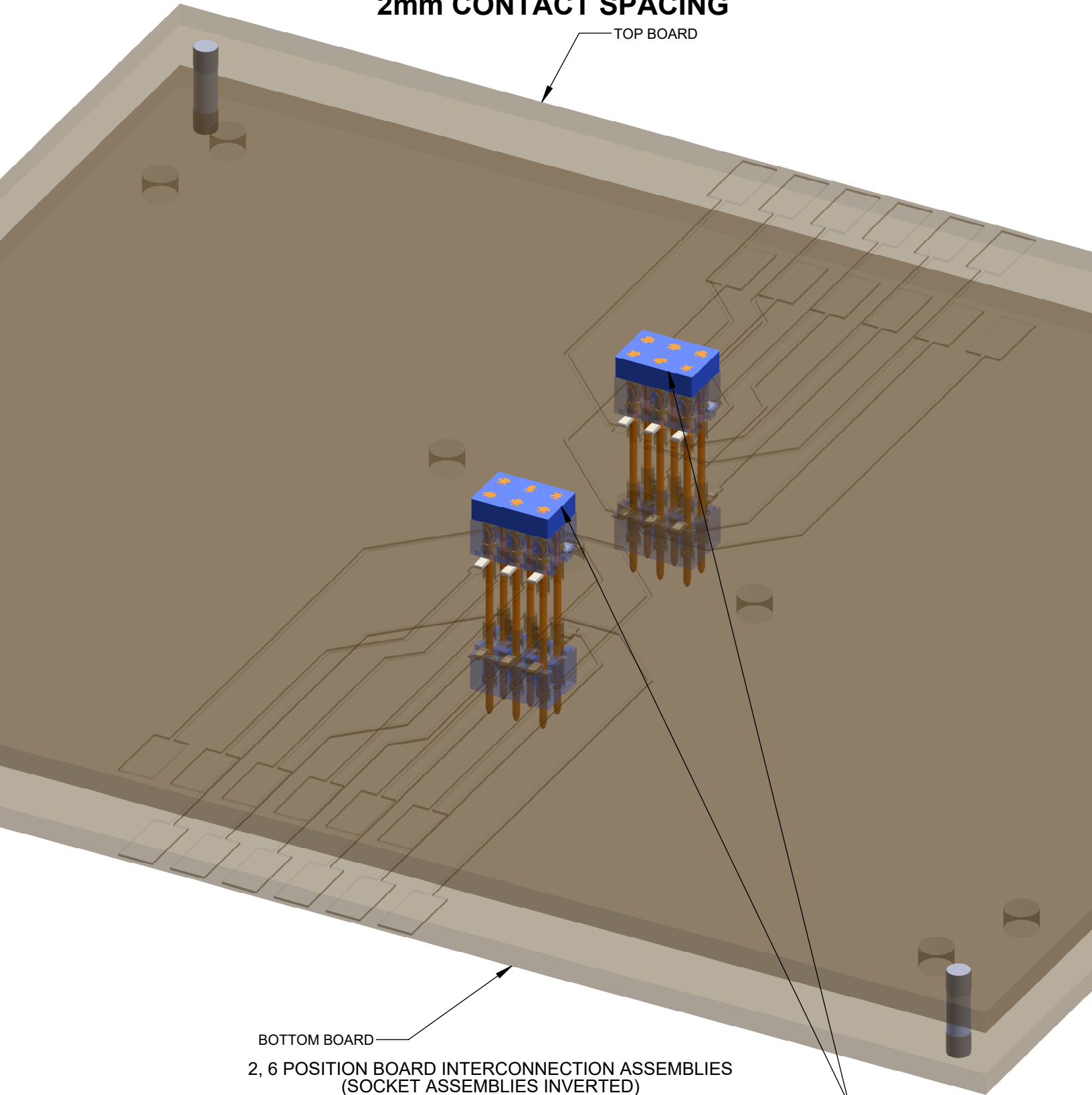
$$\pi \cdot \left(\frac{.2 \cdot \text{in}}{2}\right)^2 + .475 \cdot \text{in} \cdot .2 \cdot \text{in} = 0.126 \cdot \text{in}^2$$

SURFACE AREA AVAILABLE WITH CABLE CLAMP:



$$0.12217 \cdot \text{in}^2$$

## PARALLEL BOARD INTERCONNECTS, SURFACE MOUNT, 2mm CONTACT SPACING



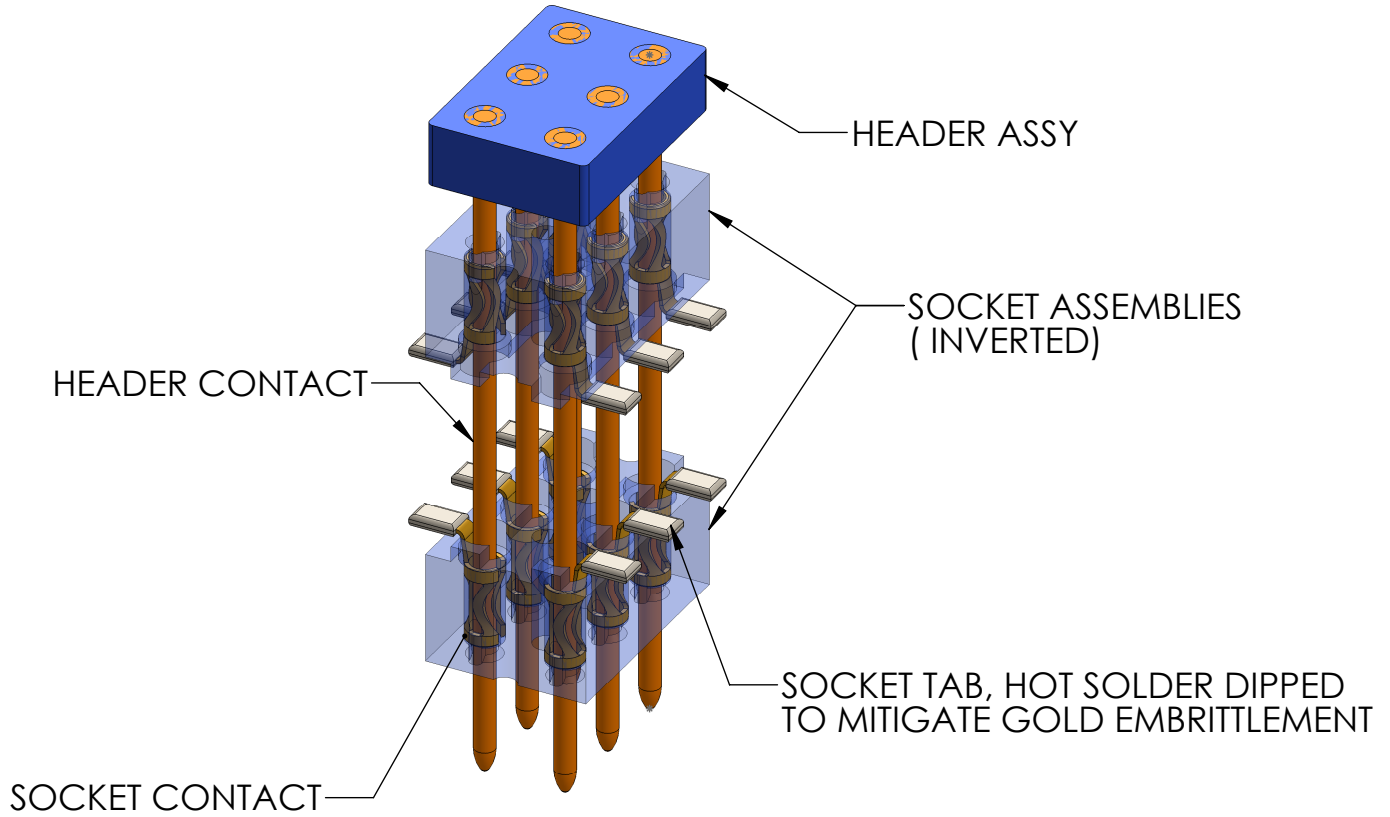
BOTTOM BOARD

TOP BOARD

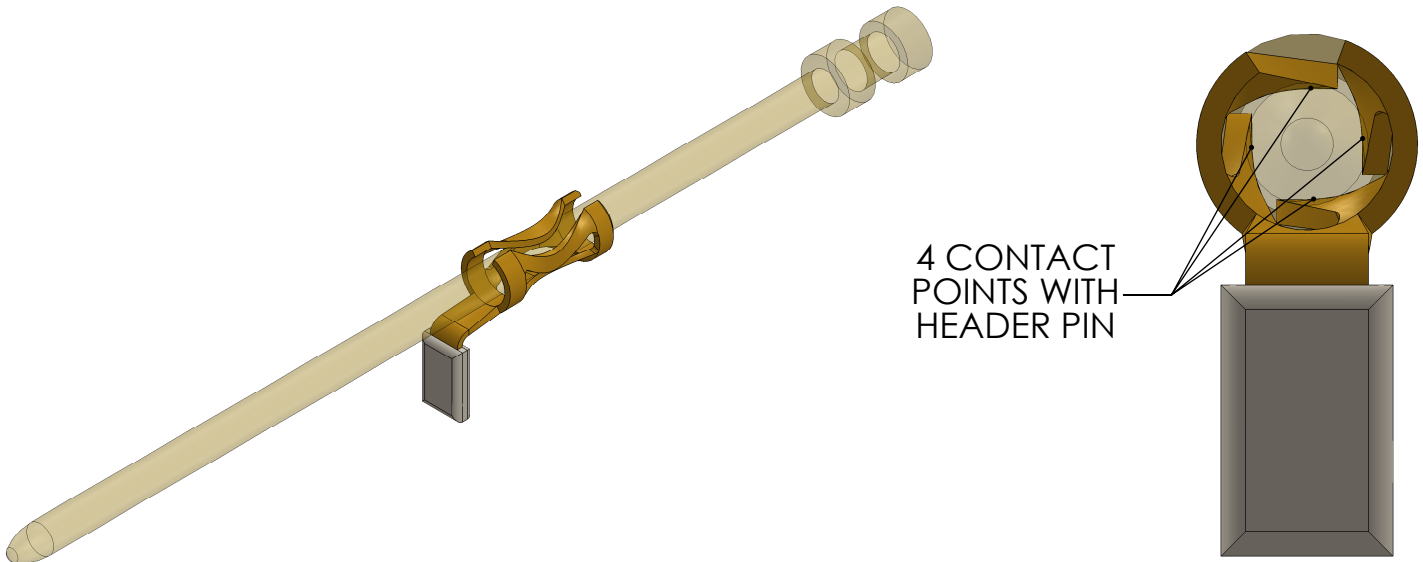
2, 6 POSITION BOARD INTERCONNECTION ASSEMBLIES  
(SOCKET ASSEMBLIES INVERTED)  
UP TO 60 POSITIONS AVAILABLE  
(SOCKET INSULATORS AND CIRCUIT BOARDS SHOWN TRANSPARENT)

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE CATALOG PAGES 81 & 83

## 6 POSITION INTERCONNECTION ASSY (SOCKET INSULATORS SHOWN TRANSPARENT)

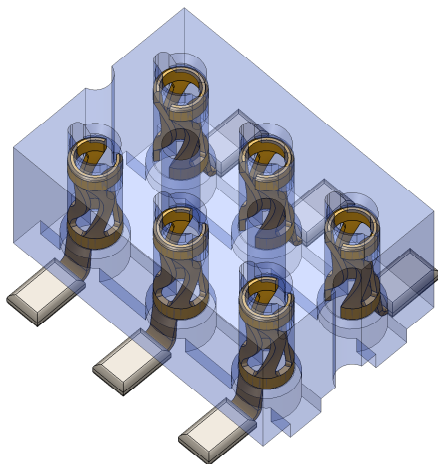


## SINGLE SOCKET AND HEADER CONTACT ASSY (HEADER CONTACT SHOWN TRANSPARENT)



FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE CATALOG PAGES 81 & 83

## 6 POSITION SOCKET ASSY (SOCKET INSULATOR SHOWN TRANSPARENT)



ACTUAL SIZE (SCALE 1:1)

### SPECIFICATIONS

#### ELECTRICAL

Current Rating.....2 amperes @ 80 °C Ambient  
 Dielectric Withstanding Voltage.....  
 Contact to Contact  
 Sea Level.....1000 VRMS @ 60 Hz

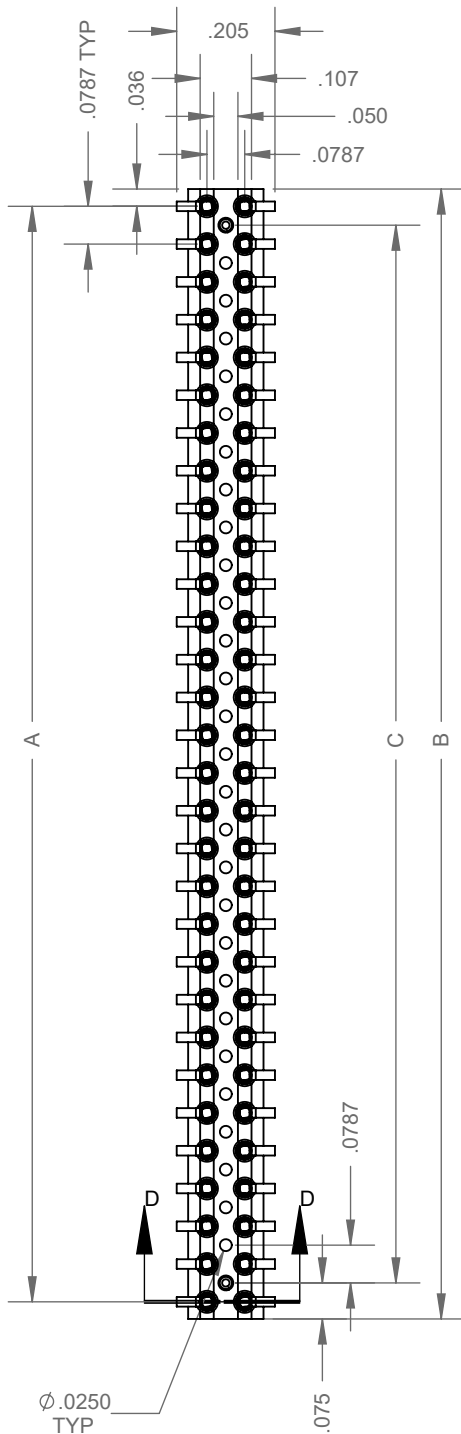
#### MECHANICAL

Contact Material.....Beryllium Copper, C17200, TD02 PER  
 ASTM B194, after stamping heat treated @  
 600 °F for max strength  
 Contact Finish.....(0.000025 In. Min. Thk.) Cobalt Gold Plate,  
 Grade C over (0.000025 In. Min. Thk.) Gold  
 Plate (24 Carat) per MIL-G-45204, Type I,  
 Grade A over (0.0001 In. Min. Thk.) Nickel  
 Plate per QQ-N-290, Type VII, Class 1 (Low  
 Stress Nickel) over (0.0001 In. Min. Thk.)  
 Copper Plate Per MIL-C-14550, Class 4;  
 Hot Solder Dipped (0.002-0.004 In. Thk.)  
 60/40 Tin/Lead per J-STD-006  
 Insulation Material.....Short Glass Fiber Filled Diallyl Phthalate per  
 ASTM D5948, Type SDG-F, Color: Blue

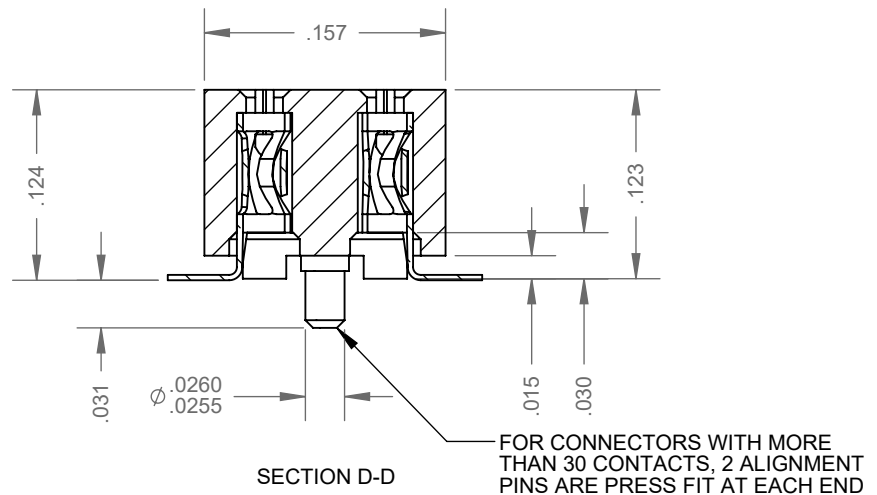


# M2 SERIES

## DIMENSIONS FOR SOCKET ASSEMBLIES FROM 2 TO 60 CONTACTS



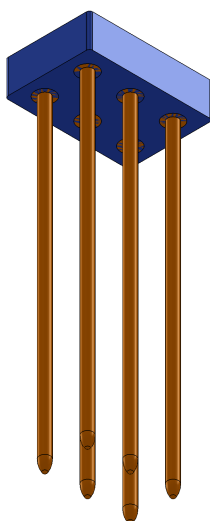
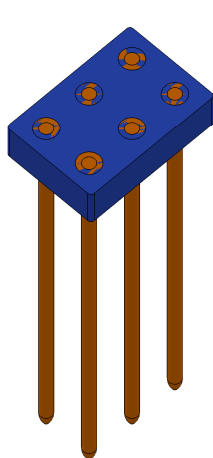
SOCKET ASSEMBLY TABLE					
PART NO	ASSY NO	A±.002	B+0/-.008	C±.002	CONTACTS
M2-60S-02-2L2FT3	3292-0	2.282	2.352	2.204	60
M2-58S-02-2L2FT3	3292-1	2.204	2.274	2.125	58
M2-56S-02-2L2FT3	3292-2	2.125	2.195	2.046	56
M2-54S-02-2L2FT3	3292-3	2.046	2.116	1.968	54
M2-52S-02-2L2FT3	3292-4	1.968	2.038	1.889	52
M2-50S-02-2L2FT3	3292-5	1.889	1.959	1.810	50
M2-48S-02-2L2FT3	3292-6	1.810	1.880	1.731	48
M2-46S-02-2L2FT3	3292-7	1.731	1.801	1.653	46
M2-44S-02-2L2FT3	3292-8	1.653	1.723	1.574	44
M2-42S-02-2L2FT3	3292-9	1.574	1.644	1.495	42
M2-40S-02-2L2FT3	3292-10	1.495	1.565	1.417	40
M2-38S-02-2L2FT3	3292-11	1.417	1.487	1.338	38
M2-36S-02-2L2FT3	3292-12	1.338	1.408	1.259	36
M2-34S-02-2L2FT3	3292-13	1.259	1.329	1.181	34
M2-32S-02-2L2FT3	3292-14	1.181	1.251	1.102	32
M2-30S-02-2L2FT3	3292-15	1.102	1.172	1.023	30
M2-28S-02-2L2FT3	3292-16	1.023	1.093	0.944	28
M2-26S-02-2L2FT3	3292-17	0.944	1.014	0.866	26
M2-24S-02-2L2FT3	3292-18	0.866	0.936	0.787	24
M2-22S-02-2L2FT3	3292-19	0.787	0.857	0.708	22
M2-20S-02-2L2FT3	3292-20	0.708	0.778	0.63	20
M2-18S-02-2L2FT3	3292-21	0.630	0.700	0.551	18
M2-16S-02-2L2FT3	3292-22	0.551	0.621	0.472	16
M2-14S-02-2L2FT3	3292-23	0.472	0.542	0.394	14
M2-12S-02-2L2FT3	3292-24	0.394	0.464	0.315	12
M2-10S-02-2L2FT3	3292-25	0.315	0.385	0.236	10
M2-08S-02-2L2FT3	3292-26	0.236	0.306	0.157	8
M2-06S-02-2L2FT3	3292-27	0.157	0.227	0.079	6
M2-04S-02-2L2FT3	3292-28	0.079	0.149	0.000	4
M2-02S-02-2L2FT3	3292-29	0.000	0.070	0.000	2



SOCKET CONTACTS SHOWN WITHOUT SOLDER DIP

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE CATALOG PAGES 81 & 83

## 6 POSITION HEADER ASSY



ACTUAL SIZE (SCALE 1:1)

### SPECIFICATIONS

#### ELECTRICAL

Current Rating.....2 amperes @ 80 °C Ambient  
 Dielectric Withstanding Voltage.....  
 Contact to Contact  
 Sea Level.....1000 VRMS @ 60 Hz

#### MECHANICAL

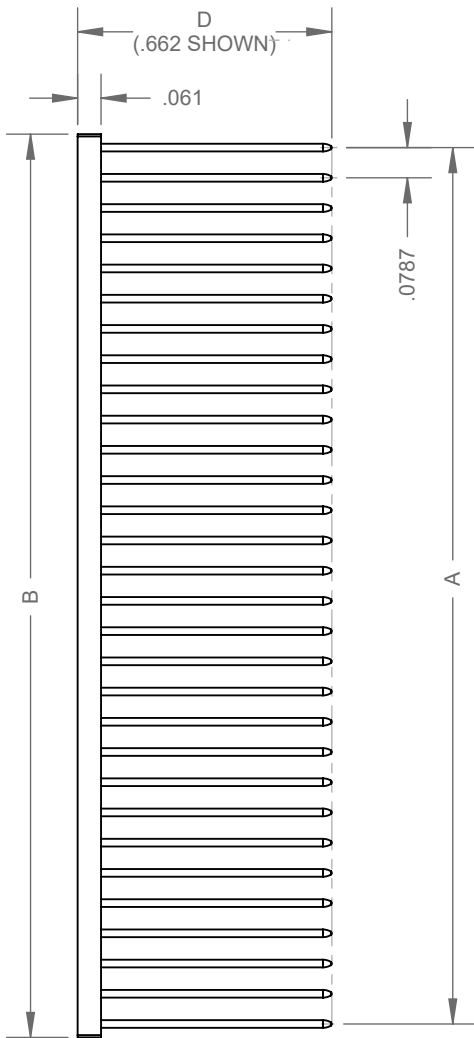
Contact Material.....Brass Wire Alloy C36000 H02 Temper per ASTM B16.  
 Contact Finish.....(0.000025 In. Min. Thk.) Cobalt Gold Plate, Grade C over (0.000025 In. Min. Thk.) Gold Plate (24 Carat) per MIL-G-45204, Type I, Grade A over (0.0001 In. Min. Thk.) Nickel Plate per QQ-N-290, Type VII, Class 1 (Low Stress Nickel) over (0.0001 In. Min. Thk.) Copper Plate Per MIL-C-14550, Class 4;  
 Insulation Material.....Short Glass Fiber Filled Diallyl Phthalate per ASTM D5948, Type SDG-F, Color: Blue



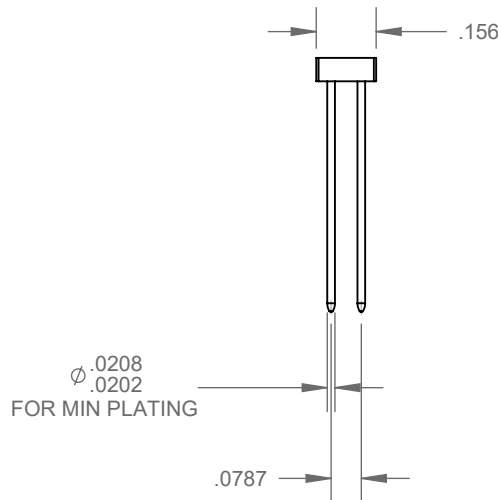


# M2 SERIES

## DIMENSIONS FOR HEADER ASSEMBLIES FROM 2 TO 60 CONTACTS

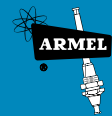


HEADER ASSEMBLY TABLE					*	D ± .005
PART NO	DRAWING NO	A±.002	B+0/- .008	CONTACTS		
M2-60P-*02-2L2FT3	9942-*0	2.282	2.352	60	1	.662
M2-58P-*02-2L2FT3	9942-*1	2.204	2.274	58	2	.837
M2-56P-*02-2L2FT3	9942-*2	2.125	2.195	56	3	.600
M2-54P-*02-2L2FT3	9942-*3	2.046	2.116	54	4	.750
M2-52P-*02-2L2FT3	9942-*4	1.968	2.038	52		
M2-50P-*02-2L2FT3	9942-*5	1.889	1.959	50		
M2-48P-*02-2L2FT3	9942-*6	1.810	1.880	48		
M2-46P-*02-2L2FT3	9942-*7	1.731	1.801	46		
M2-44P-*02-2L2FT3	9942-*8	1.653	1.723	44		
M2-42P-*02-2L2FT3	9942-*9	1.574	1.644	42		
M2-40P-*02-2L2FT3	9942-*10	1.495	1.565	40		
M2-38P-*02-2L2FT3	9942-*11	1.417	1.487	38		
M2-36P-*02-2L2FT3	9942-*12	1.338	1.408	36		
M2-34P-*02-2L2FT3	9942-*13	1.259	1.329	34		
M2-32P-*02-2L2FT3	9942-*14	1.181	1.251	32		
M2-30P-*02-2L2FT3	9942-*15	1.102	1.172	30		
M2-28P-*02-2L2FT3	9942-*16	1.023	1.093	28		
M2-26P-*02-2L2FT3	9942-*17	0.944	1.014	26		
M2-24P-*02-2L2FT3	9942-*18	0.866	0.936	24		
M2-22P-*02-2L2FT3	9942-*19	0.787	0.857	22		
M2-20P-*02-2L2FT3	9942-*20	0.708	0.778	20		
M2-18P-*02-2L2FT3	9942-*21	0.630	0.700	18		
M2-16P-*02-2L2FT3	9942-*22	0.551	0.621	16		
M2-14P-*02-2L2FT3	9942-*23	0.472	0.542	14		
M2-12P-*02-2L2FT3	9942-*24	0.394	0.464	12		
M2-10P-*02-2L2FT3	9942-*25	0.315	0.385	10		
M2-08P-*02-2L2FT3	9942-*26	0.236	0.306	8		
M2-06P-*02-2L2FT3	9942-*27	0.157	0.227	6		
M2-04P-*02-2L2FT3	9942-*28	0.079	0.149	4		
M2-02P-*02-2L2FT3	9942-*29	0.000	0.070	2		



FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE CATALOG PAGES 81 & 83

# GENERAL SPECIFICATIONS



## SUFFIX 1

- S Socket Contacts, Open Entry
- K Socket Contacts, Closed Entry
- M&P Pin Contacts

## SUFFIX 2

- J Diallyl Phthalate, Glass-Fiber Filled per MIL-M-14, Type GDI-30F
- L Diallyl Phthalate, Glass-Fiber Filled per MIL-M-14, Type SDG-F
- L2 Diallyl Phthalate, Glass-Fiber Filled per MIL-M-14, Type SDG-F Color Black
- H Diallyl Phthalate, Orlon Filled per MIL-M-14, Type SDI-5

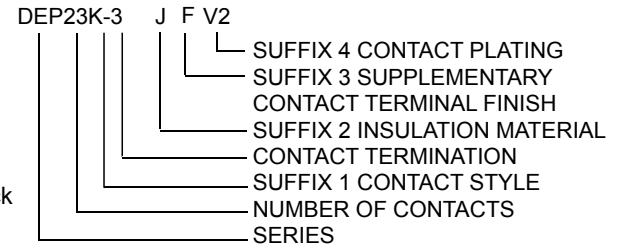
## SUFFIX 3

- None No Supplementary Contact Terminal Finish
- F Solder (60-40) with Water Soluble Rosin Flux (Solder cup prefilled)  
(Right Angle, Straight Pin, Eyelet and Turret - Dip Soldered)

## SUFFIX 4

- V2 Gold Plate (0.00005) per MIL-G-45204, Type II, Class I over Copper Strike
- T3 Gold Plate (0.00005) per MIL-G-45204, Type II, Class I over Nickel Plate (0.0001) per QQ-N-290, Type VII, Class I (low stress nickel) over Copper Plate per MIL-C-14550, Class 4.
- T6 Gold Plate (0.00005) per MIL-G-45204, Type II, Class I, Grade C over Gold Plate per MIL-G-45204, Type I, Class 00, Grade A over Nickel Plate per QQ-N-290, 30-50 microinches (low stress nickel) over Copper Plate per MIL-C-14550, Class 4.
- T7 Gold Plate (0.00005) per MIL-G-45204, Type II, Class 1, Grade B over Gold Plate (0.00005) per MIL-G-45204, Type I, Class 1, Grade A, over 50-100 microinches (Low Stress Nickel) per QQ-N-290, Type VII, Class 1, Grade G over Copper Plate per MIL-C-14550, Class 4. (OTHER PLATINGS AVAILABLE UPON REQUEST)

## PART NUMBER

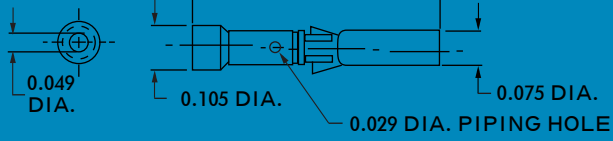


## GENERAL

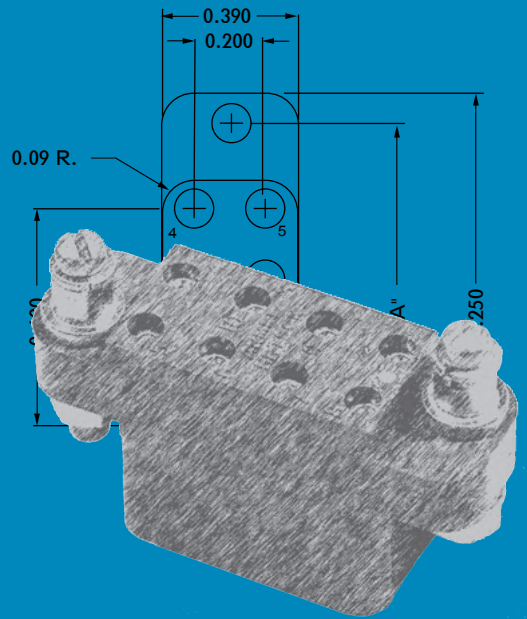
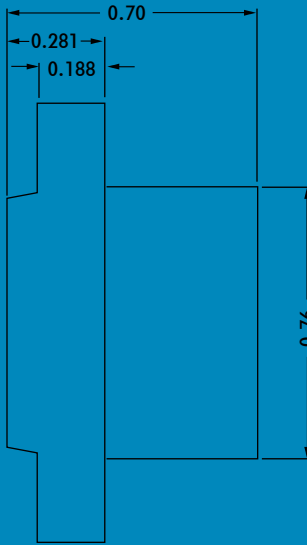
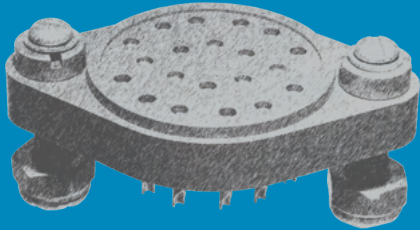
- 1 Meet or exceed applicable requirements of MIL-C-55302
- 2 Adheres to Grid System
- 3 Adaptable for Automation
- 4 May be Dip Soldered to the board
- 5 Either or both male or female may be card mounted
- 6 Available for straight or right angle mounting
- 7 May be used with single or double sided boards
- 8 Adaptable for use with boards of various thickness
- 9 Closely controlled board tolerances not required
- 10 Reduces possibility of moisture contamination
- 11 Eliminates wear or abrasion to board contact fingers
- 12 Both Pin and Socket Contacts are precision machined
- 13 Socket Contacts free floating, Pin Contacts molded in place
- 14 Secured to board by Stud or Rivet
- 15 Polarized by Guide Pins, and Contact arrangement
- 16 Additional Polarization or keying accomplishing by omission of contacts, by Guide Pins, and Contact arrangement
- 17 Closed-entry contacts meet probe damage test of MIL-C-5015
- 18 Contacts Gold Plated for low contact resistance

## MATERIAL and FINISH SPECIFICATIONS

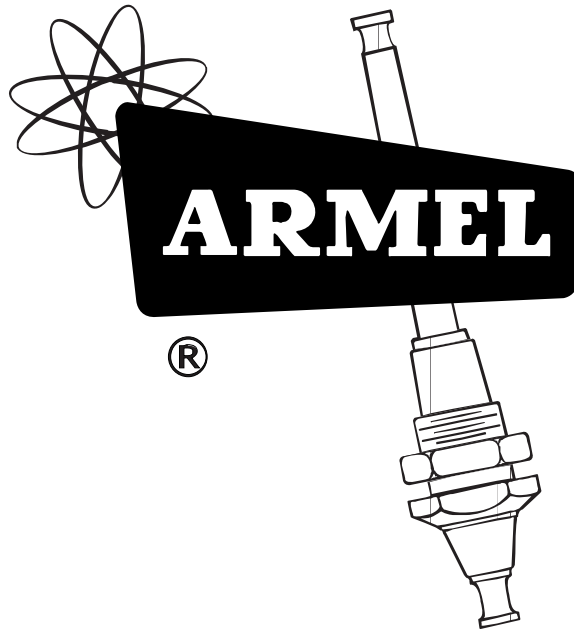
- Stainless Steel QQ-S-763/766 Type 303 (non-magnetic)
- Cold Roll Steel QQ-S-640, Composition CR
- Brass QQ-B-626
- Phosphor Bronze QQ-B-750
- Beryllium Copper QQ-C-533
- Aluminum QQ-A-365
- Cadmium Plate QQ-P-416, Type II, Class 2
- Nickel Plate QQ-N-290, Type VII, Class 2
- Passivate QQ-P-35 / AMS 2700
- Hot Tin Dip Centriuged & Reflowed,  
Solder Per QQ-S-571 SN60. Flux per  
MIL-F-14256, Type R or RMA.



Closed Entry Contact  
No. 1007010-1



# relay sockets





# RELAY SOCKET INDEX

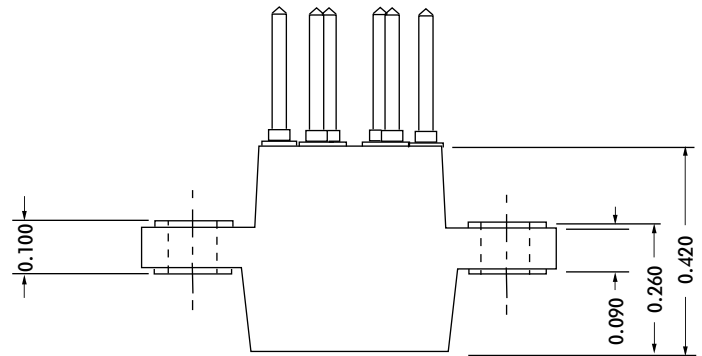
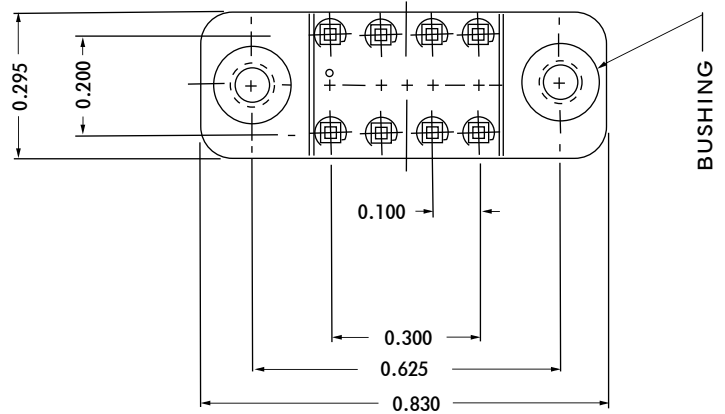
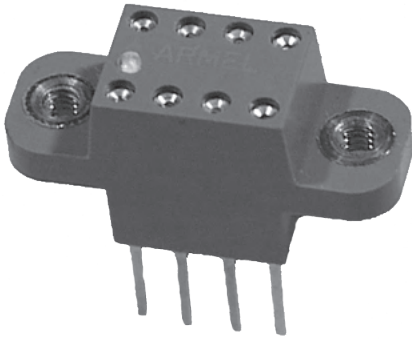
ARMEL RELAY SOCKETS are designed to attain high reliability as a primary objective based on the parameters delineated in the MIL-S-12883 Specification. This design objective is accomplished and maintained by the stringent quality control procedures maintained by Armel Electronics, Inc.

When mated with relays produced by some of the leading relay manufacturers, these sockets attain a confidence level consistent with the most exacting specifications and systems requirements.

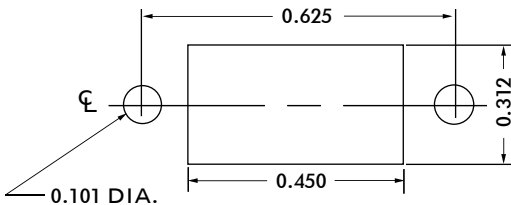
These sockets are available with a choice of thermo-setting insulations in which free-floating, precision-maintained contacts are securely contained. Variations in contact materials and platings, in addition to the mounting hardware materials and finishes, are available for special applications.

RELAY STYLE	SOCKET STYLE	PAGE	RELAY STYLE	SOCKET STYLE	PAGE			
ALPHA NUMERICAL DISPLAY SOCKETS	HAN	1	MINIATURE 2PDT	HRE	25			
	HAND	2		HRG	26			
CRYSTAL CAN 2PDT	HRK	3		HRW	27			
	HRKA	4		HRD	28			
	HRKB	5		HRFA	29			
	HRR	6		HRFB	30			
	HRC	7		HF	31			
	HRCY	8		HR	32			
	HRCZ	9		4PDT	HRB	33		
	HRCD	10			HF	31		
	HRCW	11			HR	32		
	HRUA	12			HRGD	34		
CRIMP REMOVABLE TYPE CONTACTS	HRT	13		6PDT	HF	31		
	HRTA	14			HR	32		
	HRTS	15			HRS	36		
	4PDT	HRTS-CK	16		HRSA	37		
HRCC		17	HRSB		38			
			HRSE		39			
CRIMP REMOVABLE TYPE CONTACTS 4 PDT	HRCC-CK	18	HRSS		40			
			HRCM		19	HRL	41	
			HRCE		20	MINIATURE POWER 4PDT	HRH	42
			HRCP		21		HRHA	43
			6PDT	HRCK	22		HRHF	44
HRP	45							
CRYSTAL CAN POWER 2PDT	HRCL	23	HRH	42				
	HRCF	24	HRHA	43				

# HAN SERIES



CONTACT DATA		CHASSIS MOUNTING DATA		
		X-DIMENSION	CLEARANCE HOLE FOR NO.2 SCREW	NO.2 -56 THREAD
OPEN ENDED	SOLDER CUP 3/16			
	EYELET 1/4			
	STRAIGHT 3/16			
CLOSE ENDED	WIRE WRAP 0.025 SQ. X	.24	HAN-13KLT3	HAN-518KLT3
	EYELET 1/4			
	STRAIGHT 1/8			



RECOMMENDED CHASSIS CUT-OUT

## ELECTRICAL

Contact Rating . . . . . 3 Amperes

Withstanding Voltage:

- Contact to Contact Sea Level. . . . . 1000 VRMS Minimum
- Contact to Ground Sea Level. . . . . 1800 VRMS Minimum
- Contact to Contact 70,000 Ft. . . . . 300 VRMS Minimum
- Contact to Ground 70,000 Ft. . . . . 450 VRMS Minimum

## MECHANICAL

- Creepage Between Contacts . . . . . 0.02 Minimum
- Air Space Between Contacts . . . . . 0.02 Minimum
- Contacts to Accept 0.020 ± 0.001 DIA. Pins

Contacts:

- Heat Treated Beryllium Copper
- Gold Plated over Copper or Nickel Plate

Mounting Hardware:

- Threaded or Clearance Hole Mounting Bushings

Insulation Material:

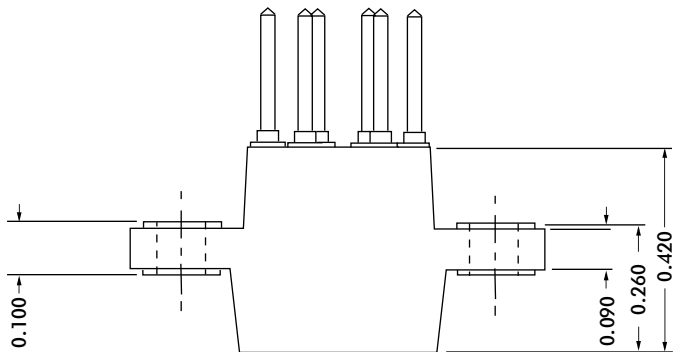
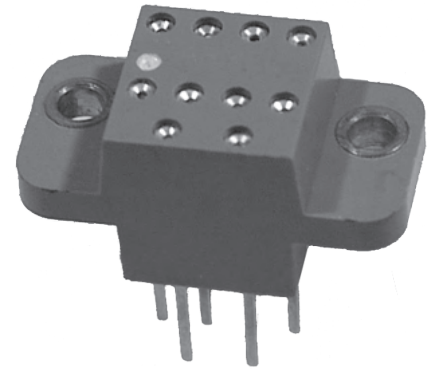
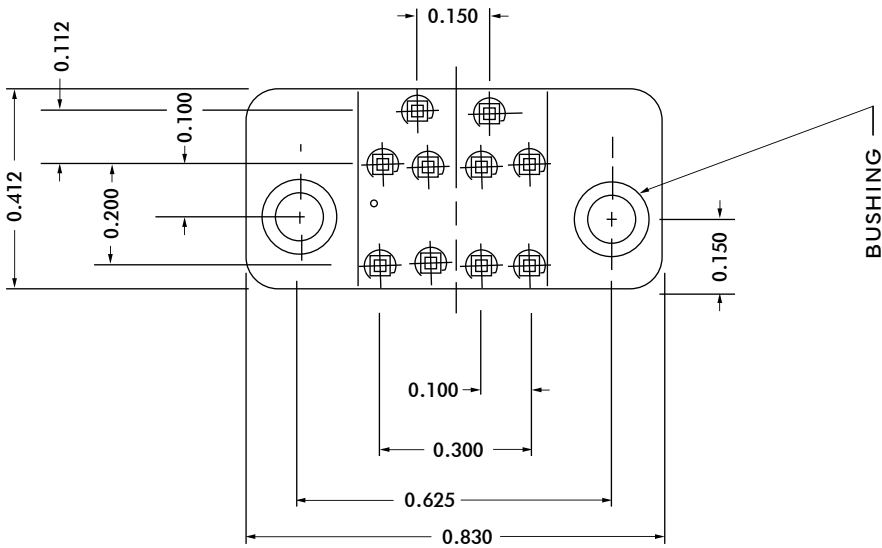
- Choice of "MIL Approved" Thermosetting Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

Weight of Socket with Mountings: 0.10 oz.



# HAND SERIES



### ELECTRICAL

Contact Rating . . . . . 3 Amperes  
 Withstanding Voltage:

- Contact to Contact Sea Level. . . 1000 VRMS Minimum
- Contact to Ground Sea Level. . . 1800 VRMS Minimum
- Contact to Contact 70,000 Ft. . . 300 VRMS Minimum
- Contact to Ground 70,000 Ft. . . 450 VRMS Minimum

### MECHANICAL

Creepage Between Contacts . . . . . 0.02 Minimum  
 Air Space Between Contacts . . . . . 0.02 Minimum  
 Contacts to Accept 0.020 ± 0.001 DIA. Pins

#### Contacts:

- Heat Treated Beryllium Copper
- Gold Plated over Copper or Nickel Plate

#### Mounting Hardware:

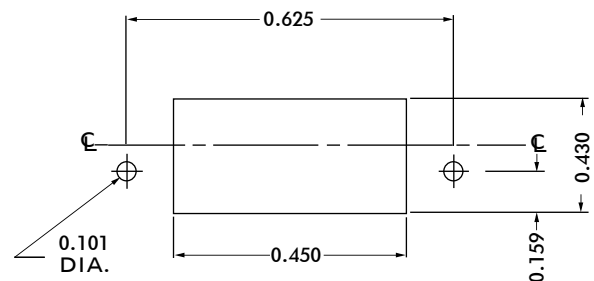
- Threaded or Clearance Hole Mounting Bushings

#### Insulation Material:

- Choice of "MIL Approved" Thermosetting Insulations (See Page 45)

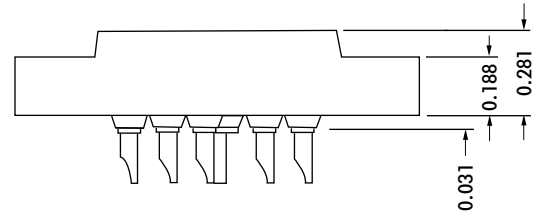
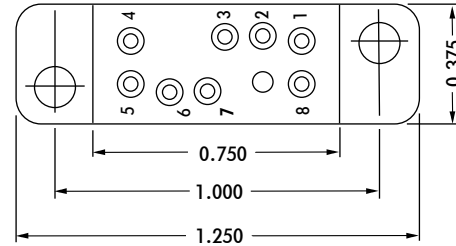
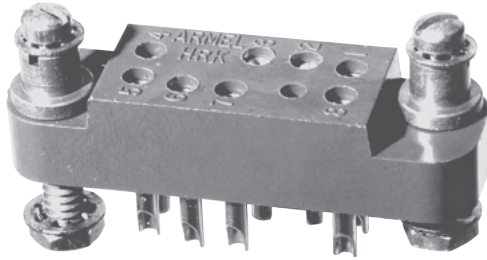
Temperature Ratings: -65°C to +125°C  
 Weight of Socket with Mountings: 0.15 oz.

		CHASSIS MOUNTING DATA		
		CONTACT DATA	CLEARANCE HOLE FOR NO.2 SCREW	NO.2-56 THREAD
P E N E T R I N G	$\frac{3}{16}$	X-DIMENSION		
	SOLDER CUP			
	$\frac{1}{4}$			
C O N D U C T I V E	$\frac{3}{16}$			
	STRAIGHT			
	0.025 SQ. X	.24	HAND-13KLT3	HAND-518KLT3
I N S U L A T I O N	$\frac{1}{4}$			
	EYELET			
T Y P E	$\frac{1}{8}$			
	STRAIGHT			

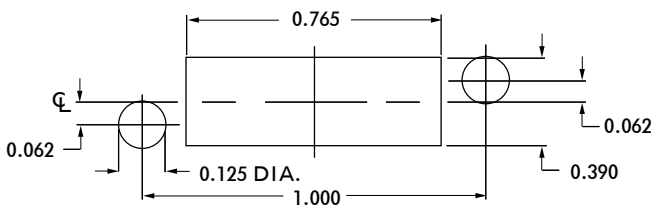


RECOMMENDED CHASSIS CUT-OUT

# HRK SERIES



		CHASSIS MOUNTING DATA				
		CHASSIS THICKNESS	X-DIMENSION			
CONTACT DATA				BELOW CHASSIS	BELOW CHASSIS	ABOVE CHASSIS
OPEN ENTRY	SOLDER CUP 	1/16	.17	HRK - 1		HRK - 2
		3/32	.14		HRK - 31	HRK - 32
		1/8	.12		HRK - 41	HRK - 42
	EYELET 	1/16	.17	HRK - 5		HRK - 6
		3/32	.14		HRK - 35	HRK - 36
		1/8	.12		HRK - 45	HRK - 46
	STRAIGHT 	1/16				HRK - 4
		3/32				HRK - 34
		1/8				
CLOSED ENTRY	SOLDER CUP 	1/16	.17	HRK - 1K		HRK - 2K
		3/32	.14		HRK - 31K	HRK - 32K
		1/8	.12		HRK - 41K	HRK - 42K
	EYELET 	1/16	.17	HRK - 5K		HRK - 6K
		3/32	.14		HRK - 35K	HRK - 36K
		1/8	.12		HRK - 45K	HRK - 46K
	STRAIGHT 	1/16				HRK - 4K
		3/32				
		1/8				



RECOMMENDED CHASSIS CUT-OUT

### ELECTRICAL:

Wire Size:

- Solder Cup Type . . . . . One #20 AWG
- Eyelet Type . . . . . Two #20 AWG or  
Three #22 AWG

Current Rating . . . . . 3 Amperes

Withstanding Voltage:

- Contact to Contact Sea Level . . . . . 1000 VRMS Minimum
- Contact to Ground Sea Level . . . . . 1800 VRMS Minimum
- Contact to Contact 70,000 Ft. . . . . 300 VRMS Minimum
- Contact to Ground 70,000 Ft. . . . . 450 VRMS Minimum

### MECHANICAL:

- Creepage Between Contacts . . . . . 0.09 Minimum
- Air Space Between Contacts . . . . . 0.03 Minimum
- Contacts to Accept 0.030 ± 0.001 DIA. Pins

Contacts:

- Spring Temper Grade "A" Phosphor Bronze, or
- Heat Treated Beryllium Copper
- Gold Plated over Copper or Nickel Plate

Mounting Hardware:

- Special Studs, Screws, Lockwashers, and Nuts

Insulation Material:

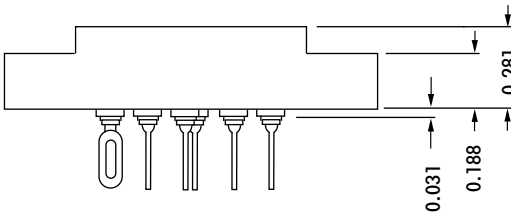
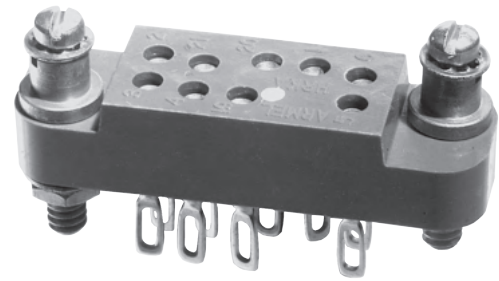
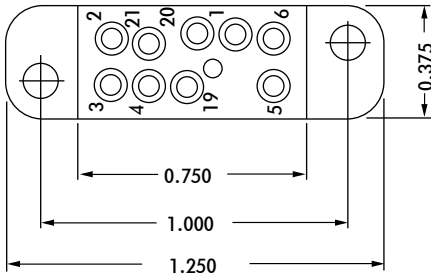
- Choice of MIL Approved Thermosetting
- Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

Weight of Socket with Mountings: 0.23 oz.



# HRKA SERIES



## ELECTRICAL

### Wire Size:

- Solder Cup Type. . . . . One #20 AWG
- Eyelet Type. . . . . Two #20 AWG or  
Three #22 AWG

Current Rating. . . . . 3 Amperes

### Withstanding Voltage:

- Contact to Contact Sea Level . . . . . 1000 VRMS Minimum
- Contact to Ground Sea Level . . . . . 1800 VRMS Minimum
- Contact to Contact 70,000 Ft. . . . . 300 VRMS Minimum
- Contact to Ground 70,000 Ft. . . . . 450 VRMS Minimum

## MECHANICAL

- Creepage Between Contacts. . . . . 0.09 Minimum
- Air Space Between Contacts. . . . . 0.03 Minimum
- Contacts to Accept 0.030 ± 0.001 DIA. Pins

### Contacts:

- Spring Temper Grade "A" Phosphor Bronze, or
- Heat Treated Beryllium Copper
- Gold Plated over Copper or Nickel Plate

### Mounting Hardware:

- Special Studs, Screws, Lockwashers, and Nuts

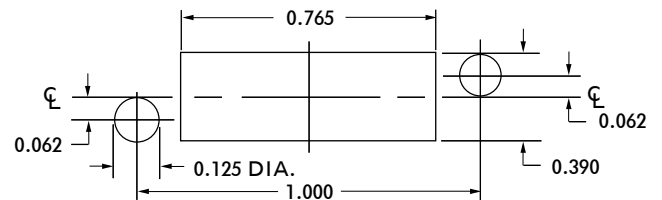
### Insulation Material:

- Choice of **MIL Approved** Thermosetting
- Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

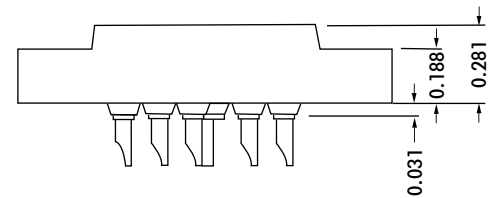
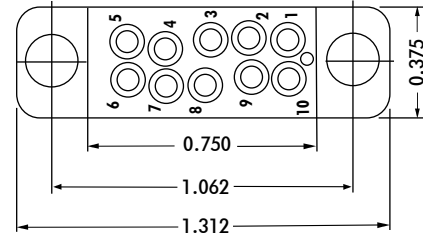
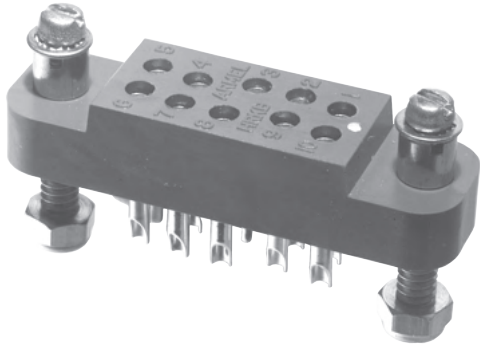
Weight of Socket with Mountings: 0.24 oz.

CONTACT DATA	CHASSIS MOUNTING DATA				
	CHASSIS THICKNESS	X-DIMENSION	MOUNTING TYPE		
			BELOW CHASSIS	BELOW CHASSIS	ABOVE CHASSIS
 SOLDER CUP	1/16	.17	HRKA - 1		HRKA - 2
	3/32	.14		HRKA - 31	HRKA - 32
	1/8	.12		HRKA - 41	HRKA - 42
 EYELET	1/16	.17	HRKA - 5		HRKA - 6
	3/32	.14		HRKA - 35	HRKA - 36
	1/8	.12		HRKA - 45	HRKA - 46
 STRAIGHT	1/16				HRKA - 4
	3/32				
	1/8				



RECOMMENDED CHASSIS CUT-OUT





CONTACT DATA		CHASSIS MOUNTING DATA				
		CHASSIS THICKNESS	X-DIMENSION	BELOW CHASSIS	BELOW CHASSIS	ABOVE CHASSIS
OPEN ENDED	SOLDER CUP	1/16	.17	HRKB - 1		HRKB - 2
		3/32	.14		HRKB - 31	HRKB - 32
		1/8	.12		HRKB - 41	HRKB - 42
	EYELET	1/16	.17	HRKB - 5		HRKB - 6
		3/32	.14		HRKB - 35	HRKB - 36
		1/8	.12		HRKB - 45	HRKB - 46
STRAIGHT	1/16				HRKB - 4	
	3/32					
	1/8					
CLOSE ENDED	SOLDER CUP	1/16	.17	HRKB - 1K		HRKB - 2K
		3/32	.14		HRKB - 31K	HRKB - 32K
		1/8	.12		HRKB - 41K	HRKB - 42K
	EYELET	1/16	.17	HRKB - 5K		HRKB - 6K
		3/32	.14		HRKB - 35K	HRKB - 36K
		1/8	.12		HRKB - 45K	HRKB - 46K
	STRAIGHT	1/16				HRKB - 4K
		3/32				
		1/8				

### ELECTRICAL

Wire Size:

- Solder Cup Type. . . . . One #20 AWG
- Eyelet Type. . . . . Two #20 AWG or Three #22 AWG

Current Rating. . . . . 3 Amperes

Withstanding Voltage:

- Contact to Contact Sea Level. . . . . 1000 VRMS Minimum
- Contact to Ground Sea Level. . . . . 2250 VRMS Minimum
- Contact to Contact 70,000 Ft. . . . . 300 VRMS Minimum
- Contact to Ground 70,000 Ft. . . . . 500 VRMS Minimum

### MECHANICAL

- Creepage Between Contacts. . . . . 0.09 Minimum
- Air Space Between Contacts. . . . . 0.03 Minimum
- Contacts to Accept 0.030 ± 0.001 DIA. Pins

Contacts:

- Spring Temper Grade "A" Phosphor Bronze or Heat Treated Beryllium Copper
- Gold Plated over Copper or Nickel Plate

Mounting Hardware:

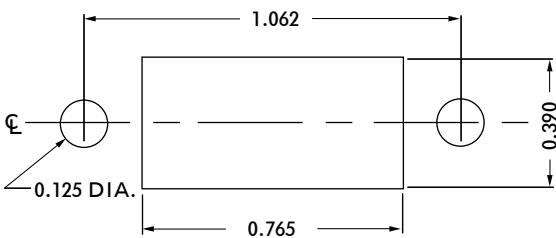
- Special Studs, Screws, Lockwashers, and Nuts

Insulation Material:

- Choice of **MIL Approved** Thermosetting Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

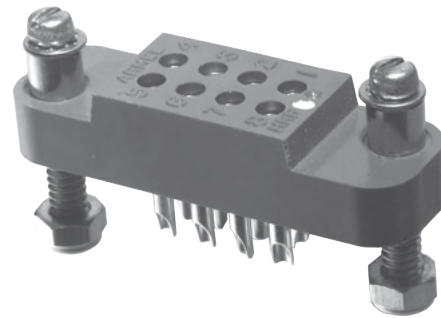
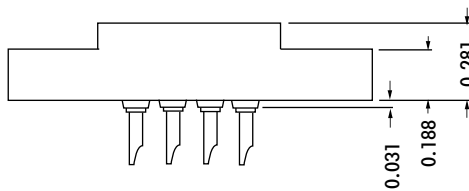
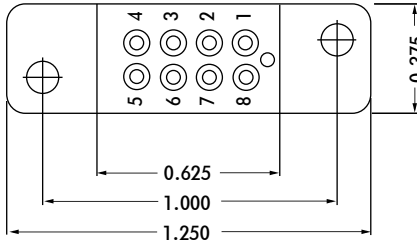
Weight of Socket with Mountings: 0.26 oz.



RECOMMENDED CHASSIS CUT-OUT



# HRR SERIES



CONTACT DATA	CHASSIS MOUNTING DATA				
	CHASSIS THICKNESS	X-DIMENSION	BELOW CHASSIS		ABOVE CHASSIS
<b>SOLDER CUP</b>	1/16	.17	HRR - 1		HRR - 2
	3/32	.14		HRR - 31	HRR - 32
	1/8	.12		HRR - 41	HRR - 42
<b>EYELET</b>	1/16	.17	HRR- 5		HRR - 6
	3/32	.14		HRR - 35	HRR - 36
	1/8	.12		HRR - 45	HRR - 46
<b>STRAIGHT</b>	1/16				HRR - 4
	3/32				
	1/8				

## ELECTRICAL

Wire Size:

- Solder Cup Type . . . . . One #20 AWG
- Eyelet Type . . . . . Two #20 AWG or  
Three #22 AWG

Current Rating . . . . . 3 Amperes

Withstanding Voltage:

- Contact to Contact Sea Level . . . 1000 VRMS Minimum
- Contact to Ground Sea Level . . . 3300 VRMS Minimum
- Contact to Contact 70,000 Ft. . . . 300 VRMS Minimum
- Contact to Ground 70,000 Ft. . . . 675 VRMS Minimum

## MECHANICAL

Creepage Between Contacts . . . . . 0.09 Minimum

Air Space Between Contacts . . . . . 0.03 Minimum

Contacts to Accept 0.020 ± 0.001 DIA. Pins

Contacts:

- Spring Temper Grade "A" Phosphor Bronze, or
- Heat Treated Beryllium Copper
- Gold Plated over Copper or Nickel Plate

Mounting Hardware:

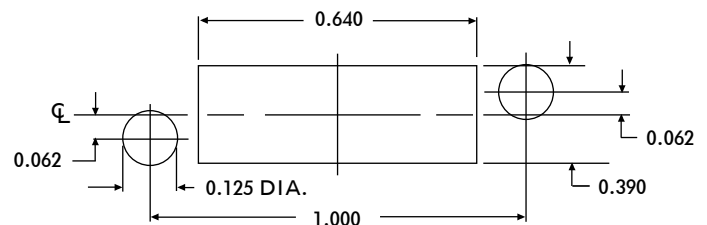
- Special Studs, Screws, Lockwashers, and Nuts

Insulation Material:

- Choice of **MIL Approved** Thermosetting
- Insulations (See Page 45)

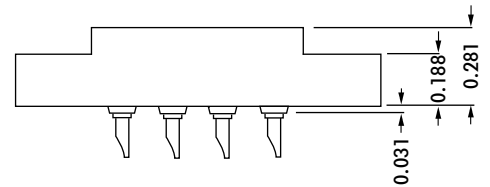
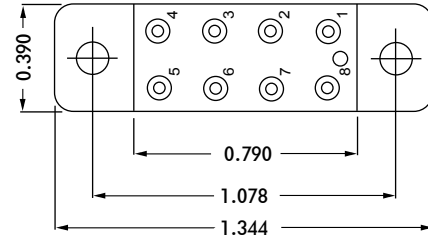
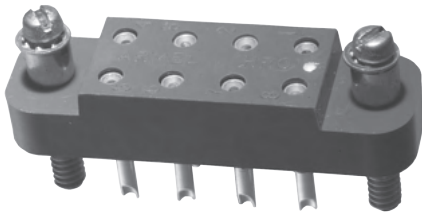
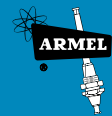
Temperature Ratings: -65°C to +125°C

Weight of Socket with Mountings: 0.23 oz.



RECOMMENDED CHASSIS CUT-OUT

# HRC SERIES



CONTACT DATA		CHASSIS MOUNTING DATA			
		CHASSIS THICKNESS	X-DIMENSION		
TYPE	WIRE SIZE			BELOW CHASSIS	ABOVE CHASSIS
		OPEN ENTRY	SOLDER CUP	1/16	.17
3/32	.14				HRC - 31
1/8	.12				HRC - 41
EYELET	1/16		.17	HRC - 5	HRC - 6
	3/32		.14		HRC - 35
	1/8		.12		HRC - 45
STRAIGHT	1/16			HRC - 4	
	3/32			HRC - 34	
	1/8				
WIRE WRAP	0.025 SQ.	1/16	.17	HRC - 9	HRC - 13
	0.045 SQ.	3/32			
		1/8			
CLOSED ENTRY	SOLDER CUP	1/16	.17	HRC - 1K	HRC - 2K
		3/32	.14		HRC - 31K
		1/8	.12		HRC - 41K
	EYELET	1/16	.17	HRC - 5K	HRC - 6K
		3/32	.14		HRC - 35K
		1/8	.12		HRC - 45K
STRAIGHT	1/16			HRC - 4K	
	3/32				
	1/8				
WIRE WRAP	0.045 SQ.	1/16	.17	HRC - 818K	HRC - 18K

## ELECTRICAL

Wire Size:

- Solder Cup Type. . . . . One #20 AWG
- Eyelet Type . . . . . Two #20 AWG or Three #22 AWG

Current Rating . . . . . 3 Amperes

Withstanding Voltage:

- Contact to Contact Sea Level. . . . . 2700 VRMS Minimum
- Contact to Ground Sea Level. . . . . 2250 VRMS Minimum
- Contact to Contact 70,000 Ft. . . . . 560 VRMS Minimum
- Contact to Ground 70,000 Ft. . . . . 500 VRMS Minimum

## MECHANICAL

- Creepage Between Contacts. . . . . 0.17 Minimum
- Air Space Between Contacts. . . . . 0.11 Minimum
- Contacts to Accept 0.030 ± 0.001 DIA. Pins

Contacts:

- Spring Temper Grade "A" Phosphor Bronze, or Heat Treated Beryllium Copper
- Gold Plated over Copper or Nickel Plate

Mounting Hardware:

- Special Studs, Screws, Lockwashers, and Nuts

Insulation Material:

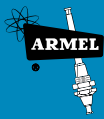
- Choice of **MIL Approved** Thermosetting Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

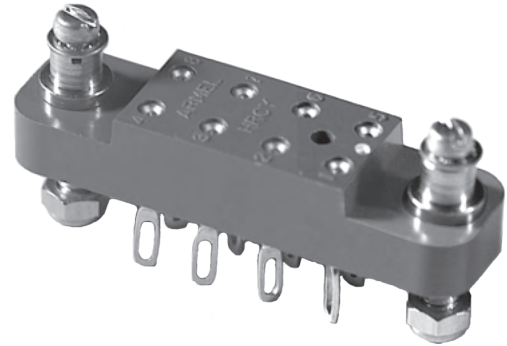
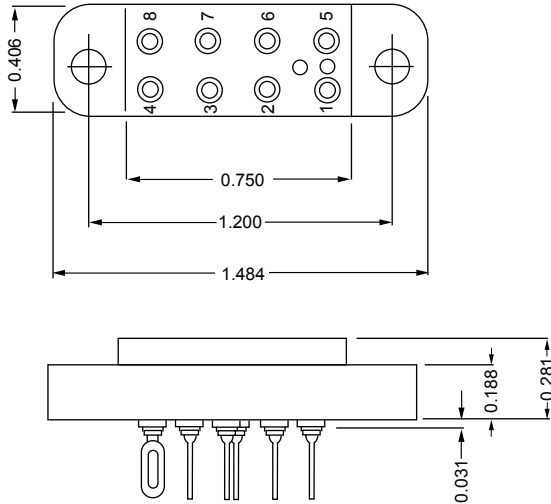
Weight of Socket with Mountings: 0.23 oz.



RECOMMENDED CHASSIS CUT-OUT



# HRCY SERIES



## ELECTRICAL

Wire Size:

- Solder Cup Type. . . . . One #20 AWG
- Eyelet Type. . . . . Two #20 AWG or  
Three #22 AWG

Current Rating. . . . . 3 Amperes

Withstanding Voltage:

- Contact to Contact Sea Level. . . . . 2700 VRMS Minimum
- Contact to Ground Sea Level. . . . . 3300 VRMS Minimum
- Contact to Contact 70,000 Ft. . . . . 560 VRMS Minimum
- Contact to Ground 70,000 Ft. . . . . 675 VRMS Minimum

## MECHANICAL

- Creepage Between Contacts. . . . . 0.17 Minimum
- Air Space Between Contacts. . . . . 0.11 Minimum
- Contacts to Accept 0.030 ± 0.001 DIA. Pins

Contacts:

- Spring Temper Grade "A" Phosphor Bronze or  
Heat Treated Beryllium Copper
- Gold Plated over Copper or Nickel Plate

Mounting Hardware:

- Special Studs, Screws, Lockwashers, and Nuts

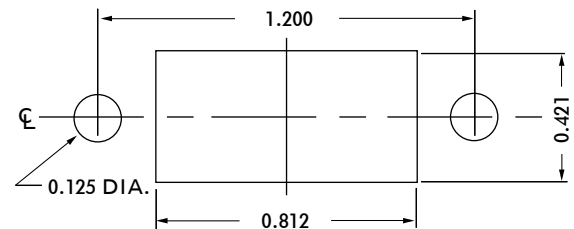
Insulation Material:

- Choice of **MIL Approved** Thermosetting  
Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

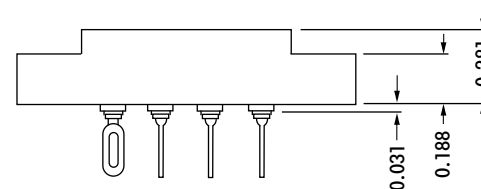
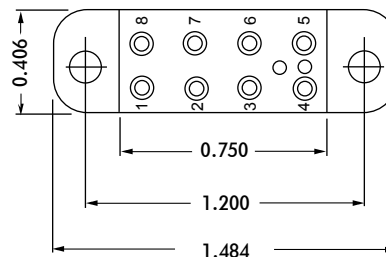
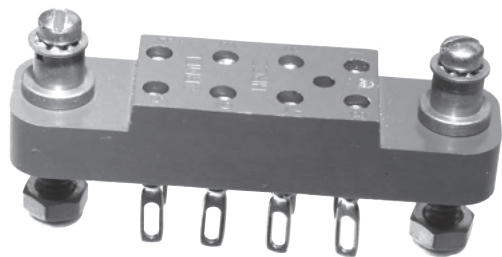
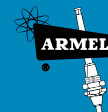
Weight of Socket with Mountings: 0.25 oz.

CONTACT DATA		CHASSIS MOUNTING DATA					
		CHASSIS THICKNESS	X-DIMENSION	MOUNTING CONFIGURATIONS			
				BELOW CHASSIS	BELOW CHASSIS	ABOVE CHASSIS	
OPEN ENTRY	SOLDER CUP	1/16	.17	HRCY - 1		HRCY - 2	
		3/32	.14		HRCY - 31	HRCY - 32	
		1/8	.12		HRCY - 41	HRCY - 42	
	EYELET	1/16	.17	HRCY - 5		HRCY - 6	
		3/32	.14		HRCY - 35	HRCY - 36	
		1/8	.12		HRCY - 45	HRCY - 46	
	STRAIGHT	1/16				HRCY - 4	
		3/32					
		1/8					
	CLOSED ENTRY	SOLDER CUP	1/16	.17	HRCY - 1K		HRCY - 2K
			3/32	.14		HRCY - 31K	HRCY - 32K
			1/8	.12		HRCY - 41K	HRCY - 42K
EYELET		1/16	.17	HRCY - 5K		HRCY - 6K	
		3/32	.14		HRCY - 35K	HRCY - 36K	
		1/8	.12		HRCY - 45K	HRCY - 46K	
STRAIGHT		1/16				HRCY - 4K	
		3/32					
		1/8					



RECOMMENDED CHASSIS CUT-OUT

# HRCZ SERIES



CONTACT DATA		CHASSIS MOUNTING DATA				
		CHASSIS THICKNESS	X-DIMENSION	BELOW CHASSIS	BELOW CHASSIS	ABOVE CHASSIS
OPEN ENTRY	SOLDER CUP	1/16	.17	HRCZ - 1		HRCZ - 2
		3/32	.14		HRCZ - 31	HRCZ - 32
		1/8	.12		HRCZ - 41	HRCZ - 42
	EYELET	1/16	.17	HRCZ - 5		HRCZ - 6
		3/32	.14		HRCZ - 35	HRCZ - 36
		1/8	.12		HRCZ - 45	HRCZ - 46
	STRAIGHT	1/16				HRCZ - 4
		3/32				HRCZ - 34
		1/8				
CLOSED ENTRY	SOLDER CUP	1/16	.17	HRCZ - 1K		HRCZ - 2K
		3/32	.14		HRCZ - 31K	HRCZ - 32K
		1/8	.12		HRCZ - 41K	HRCZ - 42K
	EYELET	1/16	.17	HRCZ - 5K		HRCZ - 6K
		3/32	.14		HRCZ - 35K	HRCZ - 36K
		1/8	.12		HRCZ - 45K	HRCZ - 46K
	STRAIGHT	1/16				HRCZ - 4K
		3/32				
		1/8				

## ELECTRICAL

Wire Size:

Solder Cup Type. . . . . One #20 AWG  
 Eyelet Type. . . . . Two #20 AWG or  
 Three #22 AWG

Current Rating. . . . . 3 Amperes

Withstanding Voltage:

Contact to Contact Sea Level. . . . . 2700 VRMS Minimum  
 Contact to Ground Sea Level. . . . . 3300 VRMS Minimum  
 Contact to Contact 70,000 Ft. . . . . 560 VRMS Minimum  
 Contact to Ground 70,000 Ft. . . . . 675 VRMS Minimum

## MECHANICAL

Creepage Between Contacts. . . . . 0.17 Minimum  
 Air Space Between Contacts. . . . . 0.11 Minimum  
 Contacts to Accept 0.030 ± 0.001 DIA. Pins

Contacts:

Spring Temper Grade "A" Phosphor Bronze, or  
 Heat Treated Beryllium Copper  
 Gold Plated over Copper or Nickel Plate

Mounting Hardware:

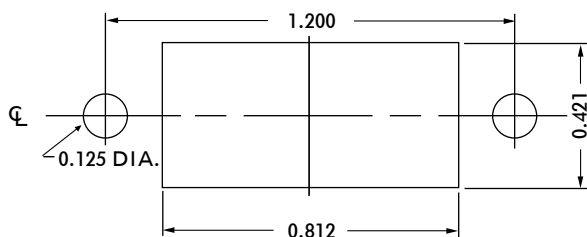
Special Studs, Screws, Lockwashers, and Nuts

Insulation Material:

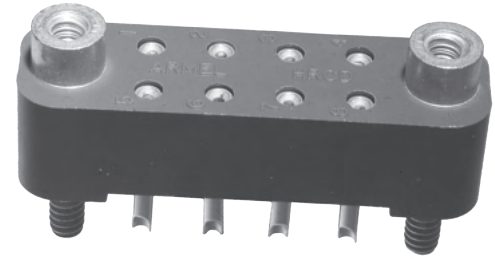
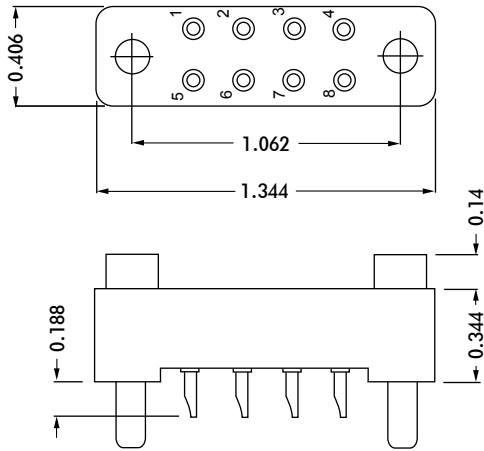
Choice of **MIL Approved** Thermosetting  
 Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

Weight of Socket with Mountings: 0.23 oz.



RECOMMENDED CHASSIS CUT-OUT



### ELECTRICAL

Wire Size:

- Solder Cup Type. . . . . One #20 AWG
- Eyelet Type. . . . . Two #20 AWG or  
Three #22 AWG

Current Rating. . . . . 3 Amperes

Withstanding Voltage:

- Contact to Contact Sea Level. . . 2700 VRMS Minimum
- Contact to Ground Sea Level. . . 2700 VRMS Minimum
- Contact to Contact 70,000 Ft. . . .560 VRMS Minimum
- Contact to Ground 70,000 Ft. . . .560 VRMS Minimum

### MECHANICAL

- Creepage Between Contacts. . . . . 0.16 Minimum
- Air Space Between Contacts. . . . . 0.11 Minimum
- Contacts to Accept 0.030 ± 0.001 DIA. Pins

Contacts:

- Spring Temper Grade "A" Phosphor Bronze, or  
Heat Treated Beryllium Copper
- Gold Plated over Copper or Nickel Plate

Mounting Hardware:

- Special Stud, Screws, Lockwashers, and Nuts

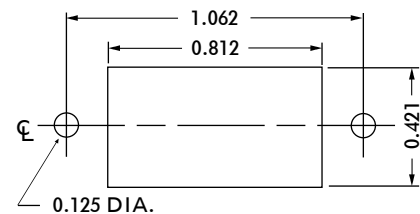
Insulation Material:

- Choice of **MIL Approved** Thermosetting  
Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

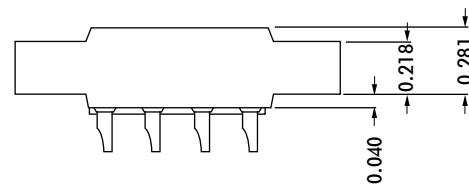
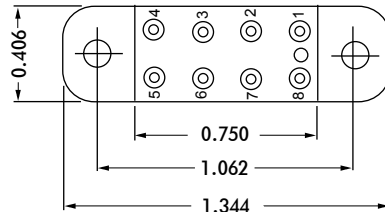
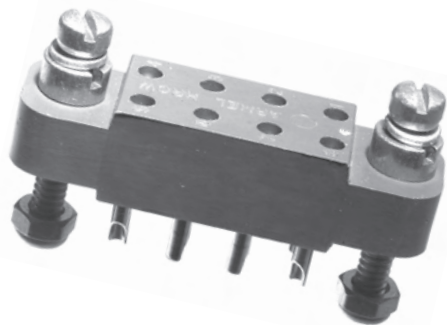
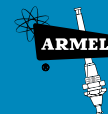
Weight of Socket with Mountings: 0.26 oz.

		CHASSIS MOUNTING DATA		
		CONTACT DATA	CHASSIS THICKNESS	
OPEN EN TRY	 SOLDER CUP	 STUD 0.28	 RIVET 0.11	
		1/16 - 1/8	HRCD-2	
		1/16		HRCD-22
	 EYELET	1/16 - 1/8	HRCD-6	
		1/16		HRCD-26
	 STRAIGHT	1/16 - 1/8	HRCD-24	
1/16			HRCD-4	
CLOSE EN TRY	 SOLDER CUP	1/16 - 1/8	HRCD-2K	
		1/16		HRCD-22K
	 EYELET	1/16 - 1/8	HRCD-6K	
		1/16		HRCD-26K
 STRAIGHT	1/8	HRCD-24K	HRCD-4K	
	1/16			

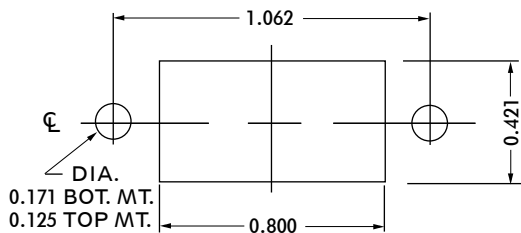


RECOMMENDED CHASSIS CUT-OUT

# HRCW SERIES



CONTACT DATA		CHASSIS MOUNTING DATA				
		CHASSIS THICKNESS	X-DIMENSION			
OPEN ENTRY	SOLDER CUP	1/16	.14		HRCW - 1	HRCW - 22
		3/32	.11		HRCW - 31	HRCW - 32
		1/8	.08			HRCW - 42
	EYELET	1/16	.14		HRCW - 5	HRCW - 6
		3/32	.11		HRCW - 35	HRCW - 36
		1/8	.08			HRCW - 46
	STRAIGHT	1/16	.14			HRCW - 24
		3/32	.11			
		1/8	.08			
CLOSED ENTRY	SOLDER CUP	1/16	.14		HRCW - 1K	HRCW - 22K
		3/32	.11		HRCW - 31K	HRCW - 32K
		1/8	.08			HRCW - 42K
	EYELET	1/16	.14		HRCW - 5K	HRCW - 6K
		3/32	.11		HRCW - 35K	HRCW - 36K
		1/8	.08			HRCW - 46K
	STRAIGHT	1/16				HRCW - 24K
		3/32				
		1/8				



RECOMMENDED CHASSIS CUT-OUT

## ELECTRICAL

Wire Size:

- Solder Cup Type . . . . . One #20 AWG
- Eyelet Type . . . . . Two #20 AWG or Three #22 AWG

Current Rating . . . . . 3 Amperes

Withstanding Voltage:

- Contact to Contact Sea Level . . . 2700 VRMS Minimum
- Contact to Ground Sea Level . . . 2250 VRMS Minimum
- Contact to Contact 70,000 Ft. . . . 560 VRMS Minimum
- Contact to Ground 70,000 Ft. . . . 500 VRMS Minimum

## MECHANICAL

- Creepage Between Contacts . . . . . 0.16 Minimum
- Air Space Between Contacts . . . . . 0.11 Minimum
- Contacts to Accept 0.030 ± 0.001 DIA. Pins

Contacts:

- Spring Temper Grade "A" Phosphor Bronze, or
- Heat Treated Beryllium Copper
- Gold Plated over Copper or Nickel Plate

Mounting Hardware:

- Special Studs, Screws, Lockwashers, and Nuts

Insulation Material:

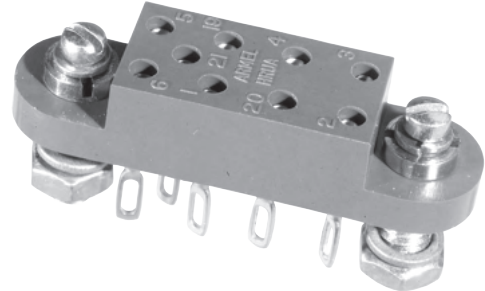
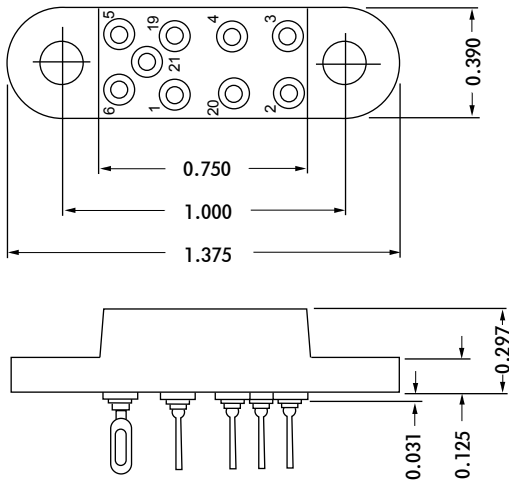
- Choice of MIL Approved Thermosetting Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

Weight of Socket with Mountings: 0.27 oz.



# HRUA SERIES



## ELECTRICAL

Wire Size:

Solder Cup Type. . . . . One #20 AWG  
 Eyelet Type. . . . . Two #20 AWG or  
 Three #22 AWG

Current Rating. . . . . 3 Amperes

Withstanding Voltage:

Contact to Contact Sea Level. . . . 1500 VRMS Minimum  
 Contact to Ground Sea Level. . . . 1000 VRMS Minimum  
 Contact to Contact 70,000 Ft. . . . .375 VRMS Minimum  
 Contact to Ground 70,000 Ft. . . . . 300 VRMS Minimum

## MECHANICAL

Creepage Between Contacts. . . . . 0.11 Minimum  
 Air Space Between Contacts. . . . . 0.05 Minimum  
 Contacts to Accept 0.030 ± 0.001 DIA. Pins

Contacts:

Spring Temper Grade "A" Phosphor Bronze, or  
 Heat Treated Beryllium Copper  
 Gold Plated over Copper or Nickel Plate

Mounting Hardware:

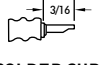
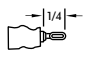
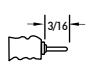
Special Studs, Screws, Lockwashers, and Nuts

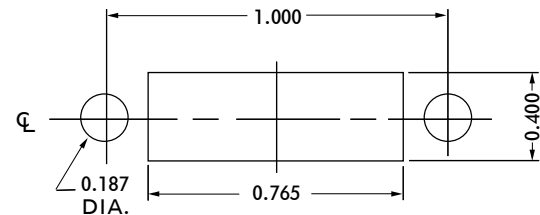
Insulation Material:

Choice of **MIL Approved** Thermosetting  
 Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

Weight of Socket with Mountings: 0.24 oz.

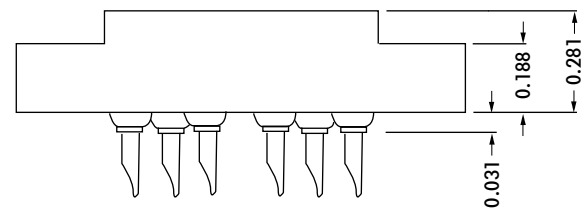
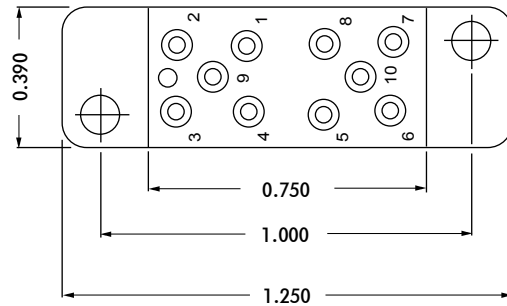
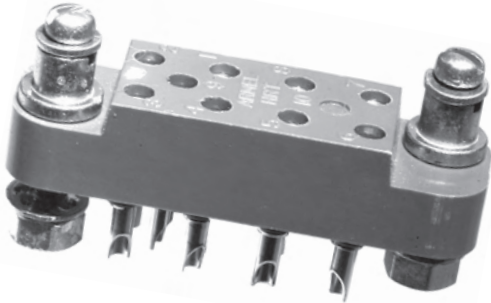
CONTACT DATA	CHASSIS MOUNTING DATA				
	CHASSIS THICKNESS	X-DIMENSION	BELOW CHASSIS	BELOW CHASSIS	ABOVE CHASSIS
 SOLDER CUP	1/16				
	3/32	.06		HRUA - 31	
	1/8				
 EYELET	1/16				
	3/32	.06		HRUA - 35	
	1/8				
 STRAIGHT	1/16				
	3/32				
	1/8				



RECOMMENDED CHASSIS CUT-OUT



# HRT SERIES



CONTACT DATA		CHASSIS MOUNTING DATA			
		CHASSIS THICKNESS	X-DIMENSION	BELOW CHASSIS	ABOVE CHASSIS
OPEN ENTRY	SOLDER CUP	1/16	10	HRT - 1	HRT - 2
			9	HRT - 7	HRT - 8
			8	HRT - 13	HRT - 14
	EYELET	1/16	10	HRT - 5	HRT - 6
			9	HRT - 11	HRT - 12
			8	HRT - 17	HRT - 18
	STRAIGHT	1/16	10	HRT - 3	HRT - 4
			9	HRT - 9	HRT - 10
			8	HRT - 15	HRT - 16
CLOSED ENTRY	SOLDER CUP	1/16	10	HRT - 1K	HRT - 2K
			9	HRT - 7K	HRT - 8K
			8	HRT - 13K	HRT - 14K
	EYELET	1/16	10	HRT - 5K	HRT - 6K
			9	HRT - 11K	HRT - 12K
			8	HRT - 17K	HRT - 18K
	STRAIGHT	1/16	10	HRT - 3K	HRT - 4K
			9	HRT - 9K	HRT - 10K
			8	HRT - 15K	HRT - 16K

## ELECTRICAL

Wire Size:

Solder Cup Type . . . . . One #20 AWG  
 Eyelet Type . . . . . Two #20 AWG or  
 Three #22 AWG

Current Rating . . . . . 3 Amperes

Withstanding Voltage:

Contact to Contact Sea Level . . 1500 VRMS Minimum  
 Contact to Ground Sea Level . . 1500 VRMS Minimum  
 Contact to Contact 70,000 Ft. . . 375 VRMS Minimum  
 Contact to Ground 70,000 Ft. . . 375 VRMS Minimum

## MECHANICAL

Creepage Between Contacts . . . . . 0.11 Minimum  
 Air Space Between Contacts . . . . . 0.05 Minimum  
 Contacts to Accept 0.030 ± 0.001 DIA. Pins

Contacts:

Spring Temper Grade "A" Phosphor Bronze, or  
 Heat Treated Beryllium Copper  
 Gold Plated over Copper or Nickel Plate

Mounting Hardware:

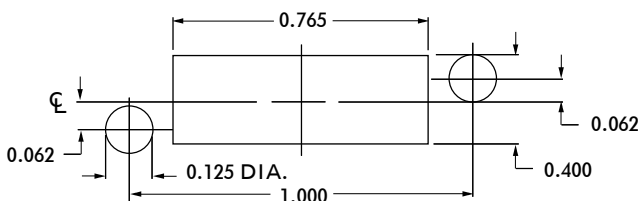
Special Studs, Screws, Lockwashers, and Nuts

Insulation Material:

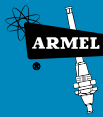
Choice of **MIL Approved** Thermosetting  
 Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

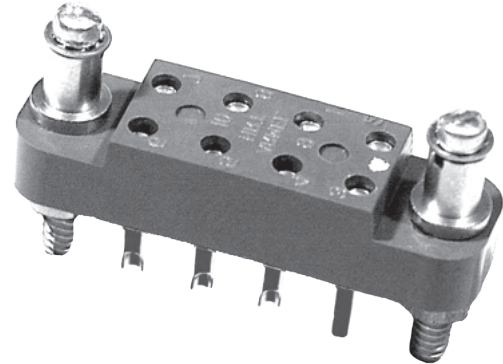
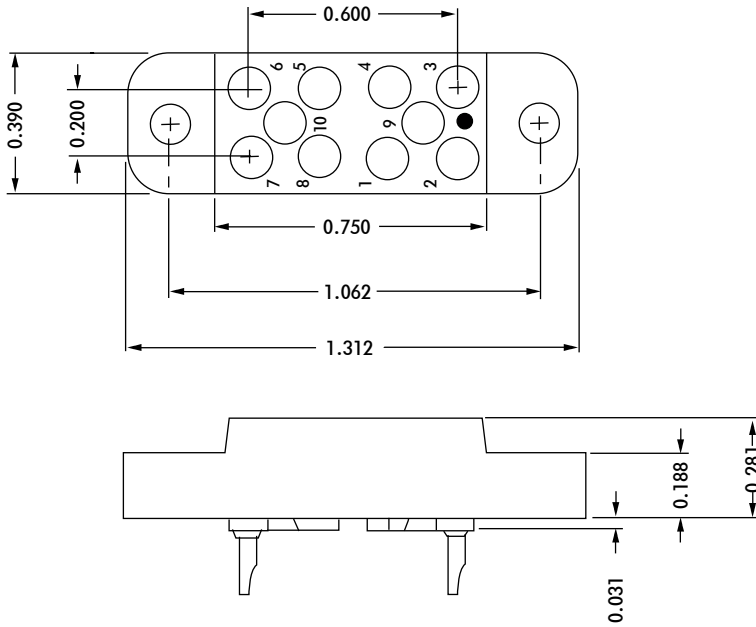
Weight of Socket with Mountings: 0.26 oz.



RECOMMENDED CHASSIS CUT-OUT



# HRTA SERIES



CONTACT DATA		CHASSIS MOUNTING DATA				
		CHASSIS THICKNESS	X-DIMENSION			
OPEN ENTRY	SOLDER CUP	$\frac{1}{16}$	.17	HRTA - 1		HRTA - 2
		$\frac{3}{32}$	.14			HRTA - 31
		$\frac{1}{8}$	.12			HRTA - 41
	EYELET	$\frac{1}{16}$	.17	HRTA - 5		
		$\frac{3}{32}$	.14			HRTA - 35
		$\frac{1}{8}$	.12			HRTA - 45
	STRAIGHT	$\frac{1}{16}$				HRTA - 4
		$\frac{3}{32}$				HRTA - 34
		$\frac{1}{8}$				
CLOSED ENTRY	SOLDER CUP	$\frac{1}{16}$	.17	HRTA - 1K		HRTA - 2K
		$\frac{3}{32}$	.14			
		$\frac{1}{8}$	.12			
	EYELET	$\frac{1}{16}$	.17	HRTA - 5K		
		$\frac{3}{32}$	.14			HRTA - 35K
		$\frac{1}{8}$	.12			HRTA - 45K
STRAIGHT	$\frac{1}{16}$				HRTA - 4K	
	$\frac{3}{32}$				HRTA - 34K	

### ELECTRICAL:

Wire Size

- Solder Cup Type . . . . . One #20 AWG
- Eyelet Type . . . . . Two #20 AWG or  
Three #22 AWG

Current Rating . . . . . 3 Amperes

Withstanding Voltage:

- Contact to Contact Sea Level . . . 1500 VRMS Minimum
- Contact to Ground Sea Level . . . 1500 VRMS Minimum
- Contact to Contact 70,000 Ft. . . . 375 VRMS Minimum
- Contact to Ground 70,000Ft. . . . 375 VRMS Minimum

### MECHANICAL:

- Creepage Between Contacts . . . . . 0.17 Minimum
- Air Space Between Contacts . . . . . 0.11 Minimum
- Contacts to Accept 0.030 + 0.001 DIA. Pins

Contacts:

- Spring Temper Grade "A" Phosphor Bronze or
- Heat Treated Beryllium Copper
- Gold Plated over Copper or Nickel Plate

Mounting Hardware:

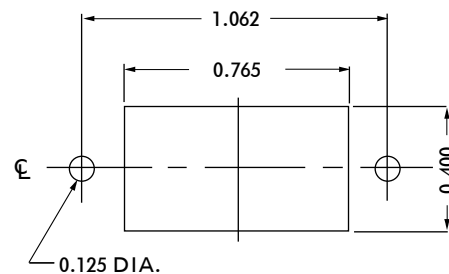
- Special Studs, Screws, Lockwashers, and Nuts

Insulation Material

- Choice of **MIL Approved** Thermosetting
- Insulations (See Page 45)

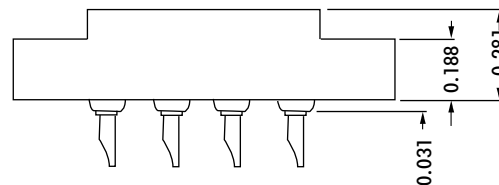
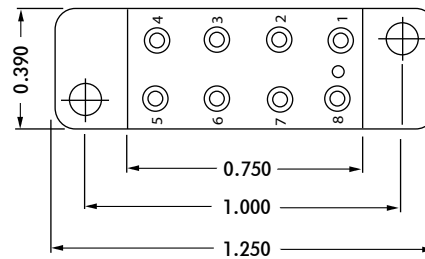
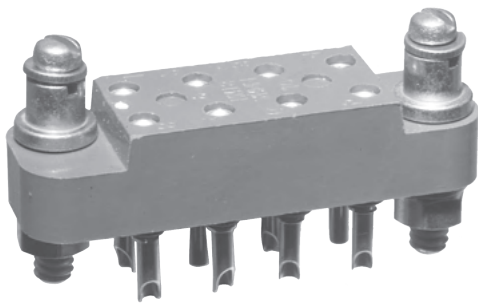
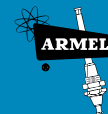
Temperature Ratings: -65°C to +125°C









Weight of Socket with Mountings: 0.30 oz.



RECOMMENDED CHASSIS CUT-OUT

# HRTS SERIES



CONTACT DATA		CHASSIS MOUNTING DATA			
		CHASSIS THICKNESS	X-DIMENSION	BELOW CHASSIS	ABOVE CHASSIS
OPEN ENTRY	SOLDER CUP 	1/16	.17	HRTS - 13	HRTS - 14
		3/32	.14		
		1/8	.12		
	EYELET 	1/16	.17	HRTS - 17	HRTS - 18
		3/32	.14		
		1/8	.12		
	STRAIGHT 	1/16	.17	HRTS - 15	HRTS - 16
		3/32	.14		
	WIRE WRAP 	1/16	.17	HRTS - 518	HRTS - 412
		0.045 SQ. 0.80			
CLOSED ENTRY	SOLDER CUP 	1/16	.17	HRTS - 13K	HRTS - 14K
		3/32	.14		
		1/8	.12		
	EYELET 	1/16	.17	HRTS - 17K	HRTS - 18K
		3/32	.14		
		1/8	.12		
	STRAIGHT 	1/16			HRTS - 16K
		3/32			
	WIRE WRAP 	1/16	.17	HRTS - 518K	HRTS - 519K
		0.025 SQ. 0.72			

### ELECTRICAL:

Wire Size  
 Solder Cup Type . . . . . One #20 AWG  
 Eyelet Type . . . . . Two #20 AWG or  
 Three #22 AWG  
 Current Rating . . . . . 3 Amperes  
 Withstanding Voltage:  
 Contact to Contact Sea Level . . . 2700 VRMS Minimum  
 Contact to Ground Sea Level . . . 1500 VRMS Minimum  
 Contact to Contact 70,000 Ft. . . . 560 VRMS Minimum  
 Contact to Ground 70,000 Ft. . . . 375 VRMS Minimum

### MECHANICAL

Creepage Between Contacts . . . . . 0.17 Minimum  
 Air Space Between Contacts . . . . . 0.11 Minimum  
 Contacts to Accept 0.030 ± 0.001 DIA. Pins

### Contacts:

Spring Temper Grade "A" Phosphor Bronze, or  
 Heat Treated Beryllium Copper  
 Gold Plated over Copper or Nickel Plate

### Mounting Hardware:

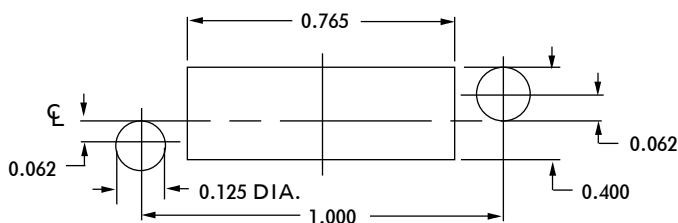
Special Studs, Screws, Lockwashers, and Nuts

### Insulation Material:

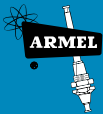
Choice of "MIL Approved" Thermosetting  
 Insulations (See Page 45)

Temperature Ratings: -65°C to + 125°C

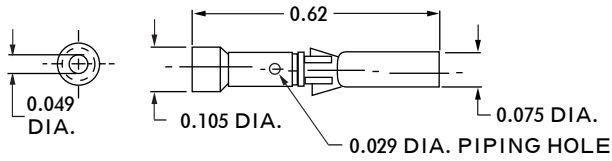
Weight of Socket with Mountings: 0.26 oz.



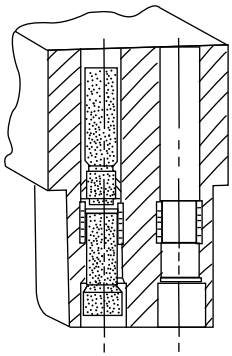
RECOMMENDED CHASSIS CUT-OUT



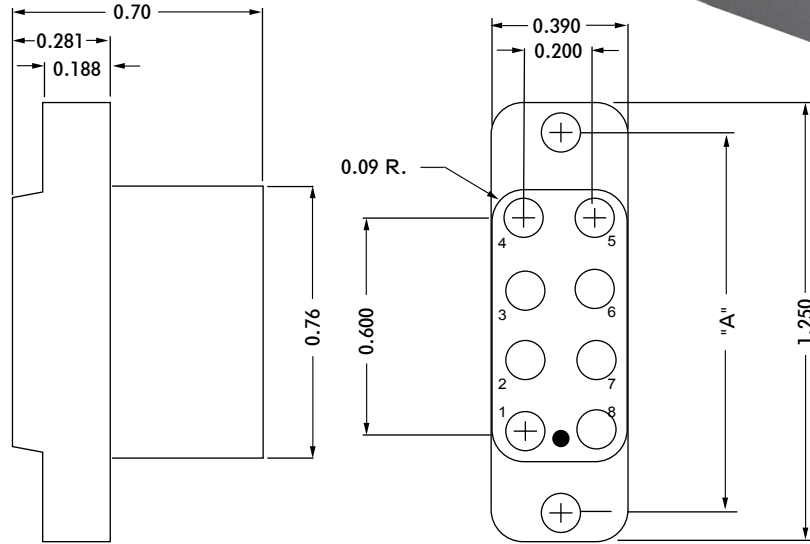
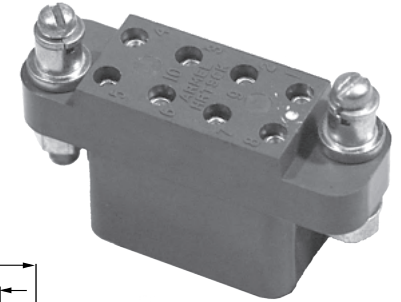
# HRTS-CK SERIES



Closed Entry Contact  
No. 1007010-1



Crimp  
Removable Contacts



## SPECIFICATIONS

### ELECTRICAL

Current Rating . . . . . 3 Amperes  
 Contact Size . . . . . 0.030 inch  
 Terminal Accomodation . . . . . One No.20, One No.22,  
 One or Two No. 24 AWG Wire

#### Withstanding Voltage:

Contact to Contact Sea Level . . . . . 2700 VRMS Minimum  
 Contact to Ground Sea Level . . . . . 1500 VRMS Minimum  
 Contact to Contact 70,000 Ft. . . . . 560 VRMS Minimum  
 Contact to Ground 70,000 Ft. . . . . 375 VRMS Minimum

### MECHANICAL

Creepage Between Contacts . . . . . 0.12 Minimum  
 Air Space Between Contacts . . . . . 0.09 Minimum  
 Contacts to Accept 0.030 ± 0.001 DIA. Pins

Contact Material & Plating . . . . . Phosphor Bronze, Gold Plated  
 (Sleeve - Brass) (0.000050 Inch) Per MIL-G-45204  
 Type II, Class 1 over Copper Plate

Contact Retaining Clip . . . . . Stainless Steel, Passivated

Crimping Tool . . . . . No. MS 3191A

Positioner . . . . . No. KP7010

Insertion Tool . . . . . Not required

#### Mounting Hardware:

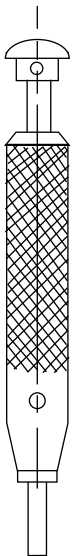
Special Studs, Screws, Lockwashers, and Nuts

#### Insulation Material:

Choice of **MIL Approved** Thermosetting  
 Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

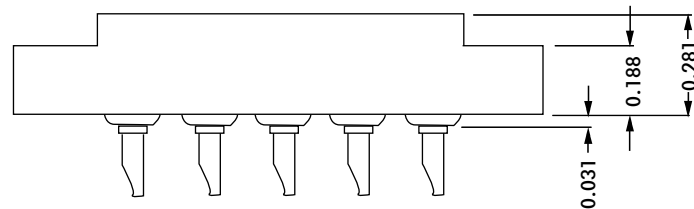
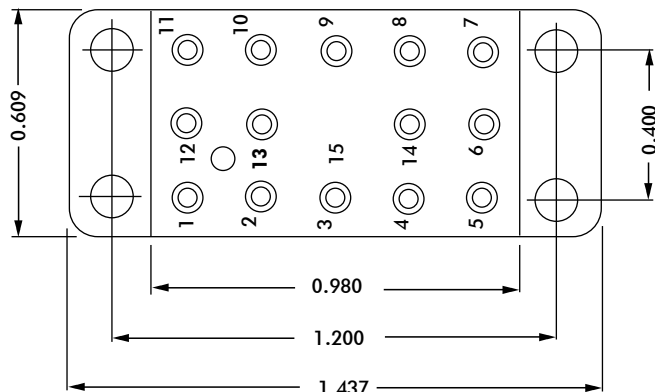
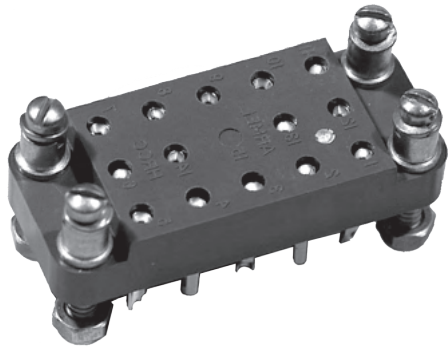
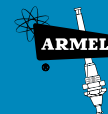
Weight of Socket with Mountings: 0.45 oz.



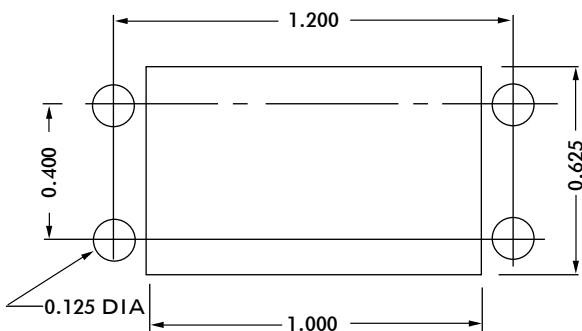
Removing Tool  
No. T9066-2

PART NO.	NUMBER OF CONTACTS	"A"
HRTS-CK-13	8	1.000
HRTS-CK-103	10	1.000
HRTS-CK-2003	8	1.078

# HRCC SERIES



CONTACT DATA		CHASSIS MOUNTING DATA					
		CHASSIS THICKNESS	X-DIMENSION	BELOW CHASSIS	BELOW CHASSIS	ABOVE CHASSIS	
OPEN ENTRY	SOLDER CUP	1/16	.17	HRCC - 1		HRCC - 2	
		3/32	.14		HRCC - 31	HRCC - 32	
		1/8	.12		HRCC - 41	HRCC - 42	
	EYELET	1/16	.17	HRCC - 5		HRCC - 6	
		3/32	.14		HRCC - 35	HRCC - 36	
		1/8	.12		HRCC - 45	HRCC - 46	
	STRAIGHT	1/16				HRCC - 4	
		3/32				HRCC - 34	
		0.045 SQ.	1/16	.17	HRCC - 718		HRCC - 719
	WIRE WRAP	0.80	3/32				
			1/8				
CLOSED ENTRY	SOLDER CUP	1/16	.17	HRCC - 1K		HRCC - 2K	
		3/32	.14		HRCC - 31K	HRCC - 32K	
		1/8	.12		HRCC - 41K	HRCC - 42K	
	EYELET	1/16	.17	HRCC - 5K		HRCC - 6K	
		3/32	.14		HRCC - 35K	HRCC - 36K	
		1/8	.12		HRCC - 45K	HRCC - 46K	
	STRAIGHT	1/16				HRCC - 4K	
		3/32					
		0.025 SQ.	1/16	.17	HRCC - 513K		HRCC - 18K
	WIRE WRAP	1/2	3/32	.23	HRCC - 13K		
			1/8				



RECOMMENDED CHASSIS CUT-OUT

## ELECTRICAL

### Wire Size:

Solder Cup Type. . . . . One #20 AWG  
 Eyelet Type. . . . . Two #20 AWG or  
 Three #22 AWG

Current Rating. . . . . 3 Amperes

### Withstanding Voltage:

Contact to Contact Sea Level. . . . . 2700 VRMS Minimum  
 Contact to Ground Sea Level. . . . . 1500 VRMS Minimum  
 Contact to Contact 70,000 Ft. . . . . 560 VRMS Minimum  
 Contact to Ground 70,000 Ft. . . . . 375 VRMS Minimum

## MECHANICAL

Creepage Between Contacts. . . . . 0.17 Minimum  
 Air Space Between Contacts. . . . . 0.11 Minimum  
 Contacts to Accept 0.030 ± 0.001 DIA. Pins

### Contacts:

Spring Temper Grade "A" Phosphor Bronze, or  
 Heat Treated Beryllium Copper  
 Gold Plated over Copper or Nickel Plate

### Mounting Hardware:

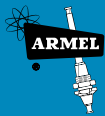
Special Studs, Screws, Lockwashers, and Nuts

### Insulation Material:

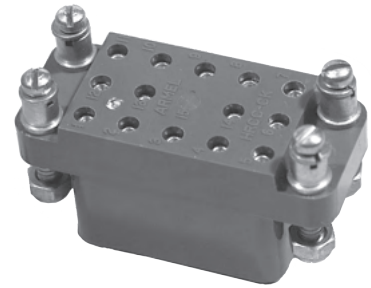
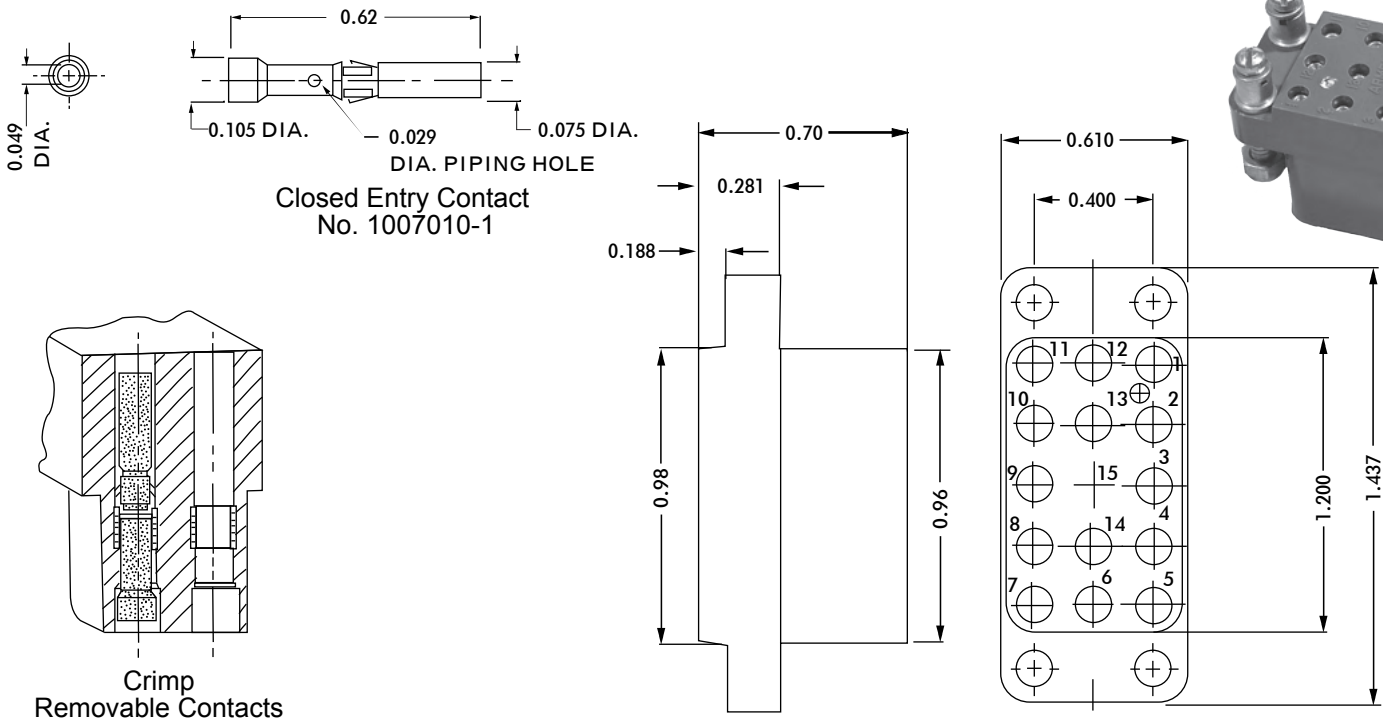
Choice of **MIL Approved** Thermosetting  
 Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

Weight of Socket with Mountings: 0.43 oz.



# HRCC-CK SERIES



## SPECIFICATIONS

### ELECTRICAL

Current Rating	3 Amperes
Contact Size	0.030 Inch
Withstanding Voltage	
Contact to Contact Sea Level	2700 VRMS Minimum
Contact to Ground Sea Level	1500 VRMS Minimum
Contact to Contact 70,000 Ft.	560 VRMS Minimum
Contact to Ground 70,000 Ft.	375 VRMS Minimum

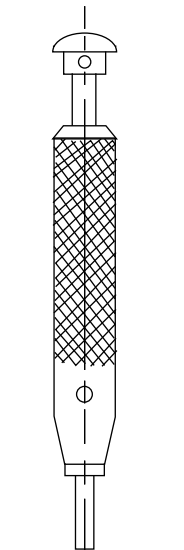
### MECHANICAL

Creepage Between Contacts	.012 Min.
Air Space Between Contacts	.009 Min.
Terminal Accommodation	One No. 20, One No. 22, One or Two No. 24 AWG Wire
Contact Material & Plating (Sleeve-Brass)	Phosphor Bronze, Gold Plated (0.000050 inch) per MIL-G-45204, Type II, Class 1, Over Copper Plate
Contact Retaining Clip	Stainless Steel, Passivated
Crimping Tool	No. MS 3191A
Positioner	No. KP7010
Insertion Tool	Not Required

Mounting Hardware:  
Special Studs, Screws Lockwashers and Nuts

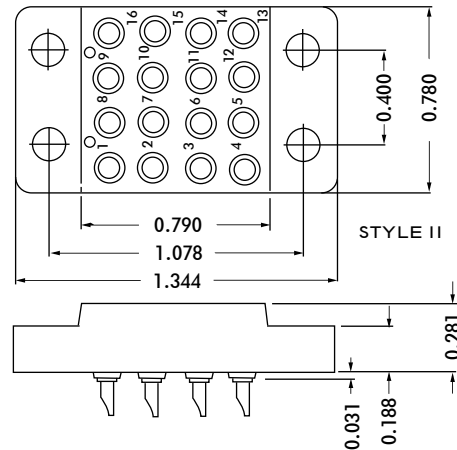
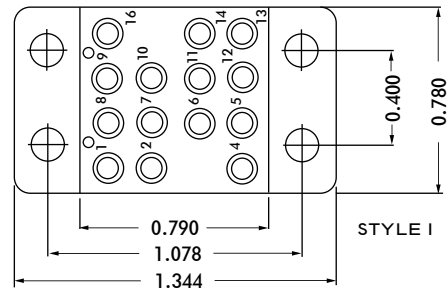
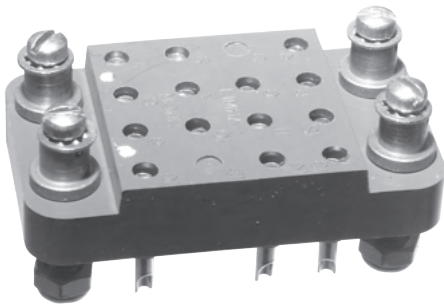
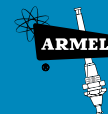
Insulation Material:  
Choice of **MIL Approved** Thermosetting  
Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C  
Weight of Socket with Mountings: 0.75 oz.



Removing Tool  
No. T9066-2

# HRCM SERIES



CONTACT DATA		CHASSIS MOUNTING DATA						
		CHASSIS THICKNESS	X-DIMENSION	STYLE	NO. OF CONTACTS	BELOW CHASSIS	BELOW CHASSIS	ABOVE CHASSIS
PREFERRED	SOLDER CUP	1/16	.17	I	14	HRCM-1		HRCM-2
				II	16	HRCM-601		HRCM-602
		3/32	.14	I	14		HRCM-31	HRCM-32
				II	16		HRCM-631	HRCM-632
		1/8	.12	I	14		HRCM-41	HRCM-42
				II	16		HRCM-641	HRCM-642
	EYELET	1/16	.17	I	14	HRCM-5		HRCM-6
				II	16	HRCM-605		HRCM-606
		3/32	.14	I	14		HRCM-35	HRCM-36
				II	16		HRCM-635	HRCM-636
		1/8	.12	I	14		HRCM-45	HRCM-46
				II	16		HRCM-645	HRCM-646
STRAIGHT	1/16	.17	I	14			HRCM-4	
			II	16			HRCM-604	
	3/32	.14	I	14				
			II	16				
	1/8	.12	I	14				
			II	16				
CROSS REFERRED	SOLDER CUP	1/16	.17	I	14	HRCM-1K		HRCM-2K
				II	16	HRCM-601K		HRCM-602K
		3/32	.14	I	14		HRCM-31K	HRCM-32K
				II	16		HRCM-631K	HRCM-632K
		1/8	.12	I	14		HRCM-41K	HRCM-42K
				II	16		HRCM-641K	HRCM-642K
	EYELET	1/16	.17	I	14	HRCM-5K		HRCM-6K
				II	16	HRCM-605K		HRCM-606K
		3/32	.14	I	14		HRCM-35K	HRCM-36K
				II	16		HRCM-635K	HRCM-636K
		1/8	.12	I	14		HRCM-45K	HRCM-46K
				II	16		HRCM-645K	HRCM-646K
STRAIGHT	1/16	.17	I	14			HRCM-4K	
			II	16			HRCM-604K	
	3/32	.14	I	14				
			II	16				
	1/8	.12	I	14				
			II	16				

## ELECTRICAL

Wire Size:

Solder Cup Type . . . . . One #20 AWG  
 Eyelet Type . . . . . Two #20 AWG or  
 Three #22 AWG

Current Rating . . . . . 3 Amperes

Withstanding Voltage:

Contact to Contact Sea Level. . . . . 2700 VRMS Minimum  
 Contact to Ground Sea Level. . . . . 2250 VRMS Minimum  
 Contact to Contact 70,000 Ft. . . . . 560 VRMS Minimum  
 Contact to Ground 70,000 Ft. . . . . 500 VRMS Minimum

## MECHANICAL

Creepage Between Contacts. . . . . 0.17 Minimum  
 Air Space Between Contacts. . . . . 0.11 Minimum  
 Contacts to Accept 0.030 ± 0.001 DIA. Pins

Contacts:

Spring Temper Grade "A" Phosphor Bronze, or  
 Heat Treated Beryllium Copper  
 Gold Plated over Copper or Nickel Plate

Mounting Hardware:

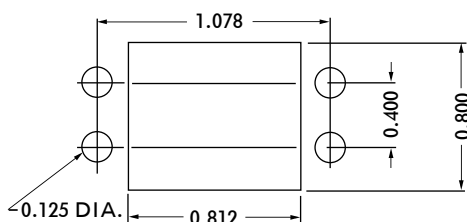
Special Studs, Screws, Lockwashers, and Nuts

Insulation Material:

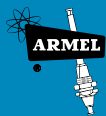
Choice of **MIL Approved** Thermosetting  
 Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

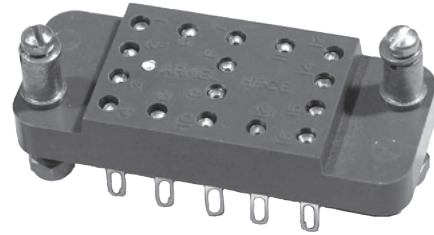
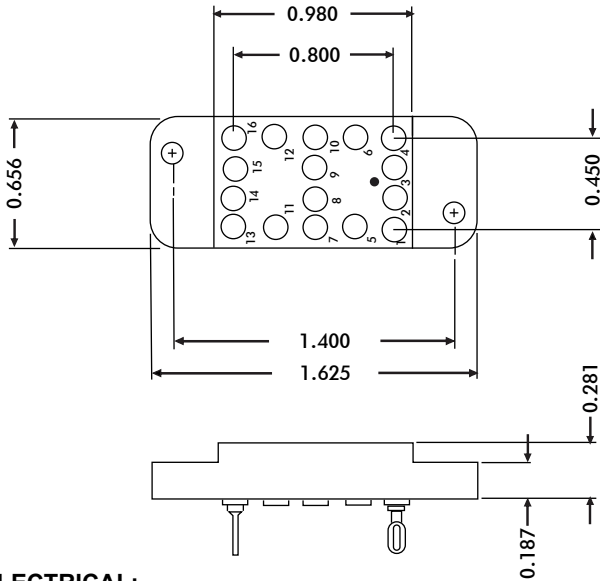
Weight of Socket with Mountings: 0.43 oz.



RECOMMENDED CHASSIS CUT-OUT



# HRCE SERIES



### ELECTRICAL:

#### Wire Size:

Solder Cup Type . . . . . One #20 AWG  
 Eyelet Type . . . . . Two #20 AWG or  
 Three #22 AWG

Current Rating . . . . . 3 Amperes

#### Withstanding Voltage:

Contact to Contact Sea Level . . . 1200 VRMS Minimum  
 Contact to Ground Sea Level . . . 3300 VRMS Minimum  
 Contact to Contact 70,000 Ft. . . . 300 VRMS Minimum  
 Contact to Ground 70,000 Ft. . . . 675 VRMS Minimum

### MECHANICAL:

Creepage Between Contacts . . . . . 0.12 Minimum  
 Air Space Between Contacts . . . . . 0.05 Minimum  
 Contacts to Accept 0.030 + 0.001 DIA. Pins

#### Contacts:

Spring Temper Grade "A" Phosphor Bronze or  
 Heat Treated Beryllium Copper  
 Gold Plated over Copper or Nickel Plate

#### Mounting Hardware:

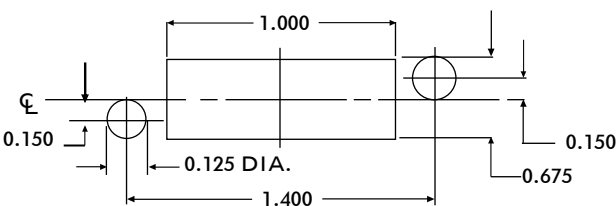
Special Studs, Screws, Lockwashers, and Nuts

#### Insulation Material:

Choice of **MIL Approved** Thermosetting  
 Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

Weight of Socket with Mountings: 0.45 oz.

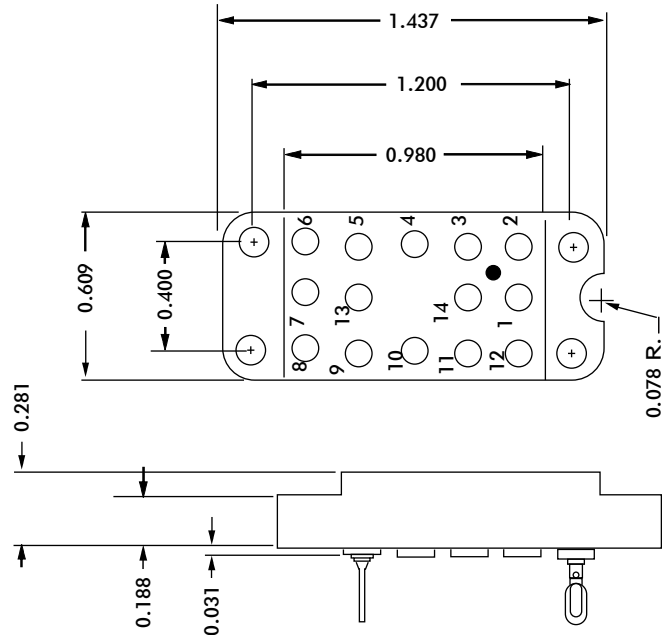
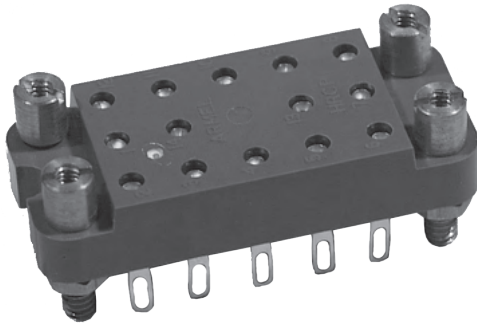


RECOMMENDED CHASSIS CUT-OUT

CONTACT DATA	CHASSIS MOUNTING DATA						
	CHASSIS THICKNESS	X-DIMENSION	MOUNTING TYPE				
			BELOW CHASSIS	BELOW CHASSIS	ABOVE CHASSIS		
OPEN MOUNTERY	SOLDER CUP	1/16	.17	HRCE - 1		HRCE - 2	
		3/32	.14				
		1/8	.12				
	EYELET	1/16	.17	HRCE - 6		HRCE - 5	
		3/32	.14				
		1/8	.12				
	STRAIGHT	1/16				HRCE - 4	
		3/32					
		1/8					
	STRAIGHT	1/16					HRCE - 24
		3/32					
		1/8					
WIRE WRAP 0.045 SQ.	1/16	.17	HRCE - 28				
	3/32	.14					
	1/8	.12					
WIRE WRAP 0.025 SQ.	1/16	.17	HRCE - 18				
	3/32	.14					
	1/8	.12					
CLOSE MOUNTERY	SOLDER CUP	1/16	.17	HRCE - 1K		HRCE - 2K	
		3/32	.14				
		1/8	.12				
	EYELET	1/16	.17	HRCE - 6K		HRCE - 5K	
		3/32	.14				
		1/8	.12				
	STRAIGHT	1/16				HRCE - 4K	
		3/32					
		1/8					
	STRAIGHT 15/64	1/16				HRCE - 24K	
		3/32					
		1/8					
WIRE WRAP 0.045 SQ.	1/16	.17	HRCE - 28K				
	3/32	.14					
	1/8	.12					
WIRE WRAP 0.025 SQ.	1/16	.17	HRCE - 18K				
	3/32	.14					
	1/8	.12					



# HRCP SERIES



CONTACT DATA	CHASSIS MOUNTING DATA				
	CHASSIS THICKNESS	X-DIMENSION	BELOW CHASSIS	BELOW CHASSIS	ABOVE CHASSIS
 SOLDER CUP	1/16	.17	HRCP-1		
	3/32	.14	HRCP-31		
 EYELET	1/8	.12	HRCP-41		
	1/16	.17	HRCP-5		
 STRAIGHT	3/32	.14	HRCP-35		
	1/8	.12	HRCP-45		
	1/16				HRCP-4
	3/32				HRCP-34
	1/8				HRCP-44

## ELECTRICAL

### Wire Size:

Solder Cup Type. . . . . One #20 AWG  
 Eyelet Type. . . . . Two #20 AWG or  
 Three #22 AWG

Current Rating. . . . . 3 Amperes

### Withstanding Voltage:

Contact to Contact Sea Level. . . . . 2700 VRMS Minimum  
 Contact to Ground Sea Level. . . . . 1500 VRMS Minimum  
 Contact to Contact 70,000 Ft. . . . . 560 VRMS Minimum  
 Contact to Ground 70,000 Ft. . . . . 375 VRMS Minimum

## MECHANICAL

Creepage Between Contacts. . . . . 0.17 Minimum  
 Air Space Between Contacts. . . . . 0.11 Minimum  
 Contacts to Accept 0.030 ± 0.001 DIA. Pins

### Contacts:

Spring Temper Grade "A" Phosphor Bronze, or  
 Heat Treated Beryllium Copper  
 Gold Plated over Copper or Nickel Plate

### Mounting Hardware:

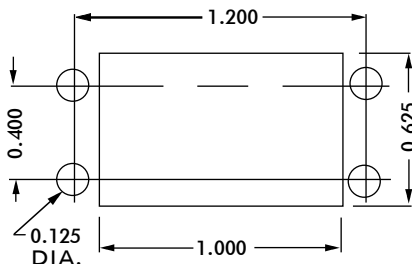
Special Studs, Screws, Lockwashers, and Nuts

### Insulation Material:

Choice of **MIL Approved** Thermosetting  
 Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

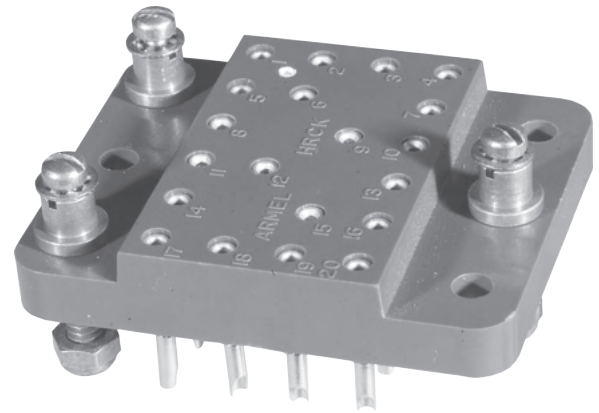
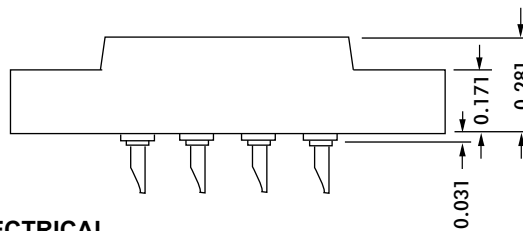
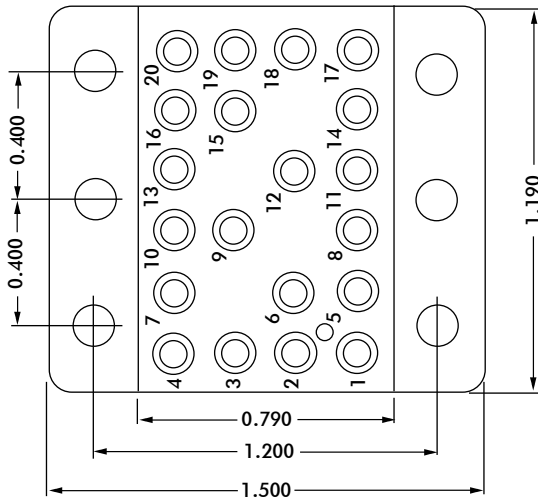
Weight of Socket with Mountings: 0.45 oz.



RECOMMENDED CHASSIS CUT-OUT



# HRCK SERIES



### ELECTRICAL

Wire Size:

- Solder Cup Type . . . . . One #20 AWG
- Eyelet Type . . . . . Two #20 AWG or Three #22 AWG

Current Rating . . . . . 3 Amperes

Withstanding Voltage:

- Contact to Contact Sea Level . . . . . 2700 VRMS Minimum
- Contact to Ground Sea Level . . . . . 3300 VRMS Minimum
- Contact to Contact 70,000 Ft. . . . . 560 VRMS Minimum
- Contact to Ground 70,000 Ft. . . . . 675 VRMS Minimum

### MECHANICAL

- Creepage Between Contacts . . . . . 0.17 Minimum
- Air Space Between Contacts . . . . . 0.11 Minimum
- Contacts to Accept 0.030 ± 0.001 DIA. Pins

Contacts:

- Spring Temper Grade "A" Phosphor Bronze, or Heat Treated Beryllium Copper
- Gold Plated over Copper or Nickel Plate

Mounting Hardware:

- Special Studs, Screws, Lockwashers, and Nuts

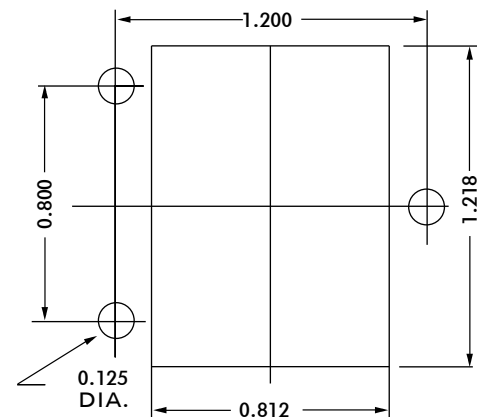
Insulation Material:

- Choice of **MIL Approved** Thermosetting Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

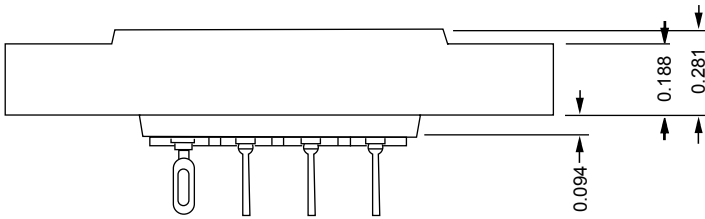
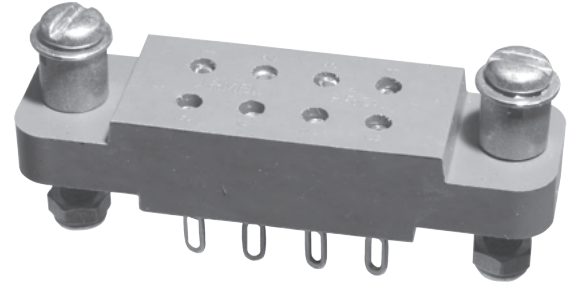
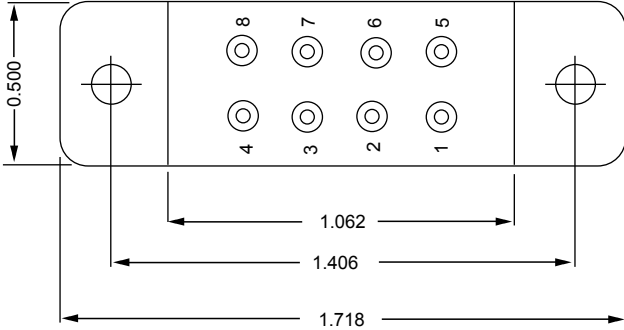
Weight of Socket with Mountings: 0.60 oz.

CONTACT DATA	CHASSIS MOUNTING DATA				
	CHASSIS THICKNESS	X-DIMENSION	MOUNTING CONFIGURATIONS		
			BELOW CHASSIS	BELOW CHASSIS	ABOVE CHASSIS
OPEN ENTRY	SOLDER CUP	1/16 .17	HRCK-1		HRCK-2
		3/32 .14		HRCK-31	HRCK-32
		1/8 .12		HRCK-41	HRCK-42
	EYELET	1/16 .17	HRCK-5		HRCK-6
		3/32 .14		HRCK-35	HRCK-36
		1/8 .12		HRCK-45	HRCK-46
CLOSED ENTRY	STRAIGHT	1/16			HRCK-4
		3/32			HRCK-34
		1/8			
CLOSED ENTRY	SOLDER CUP	1/16 .17	HRCK-1K		HRCK-2K
		3/32 .14		HRCK-31K	HRCK-32K
		1/8 .12		HRCK-41K	HRCK-42K
	EYELET	1/16 .17	HRCK-5K		HRCK-6K
		3/32 .14		HRCK-35K	HRCK-36K
		1/8 .12		HRCK-45K	HRCK-46K
STRAIGHT	1/16			HRCK-4K	
	3/32				
	1/8				



RECOMMENDED CHASSIS CUT-OUT

# HRCL SERIES



## ELECTRICAL

### Wire Size:

- Solder Cup Type . . . . . One #20 AWG
- Eyelet Type. . . . . Two #20 AWG or  
Three #22 AWG

### Current Rating. . . . .

10 Amperes

### Withstanding Voltage:

- Contact to Contact Sea Level . . . . . 2700 VRMS Minimum
- Contact to Ground Sea Level . . . . . 5400 VRMS Minimum
- Contact to Contact 70,000 Ft. . . . . 560 VRMS Minimum
- Contact to Ground 70,000 Ft. . . . . 975 VRMS Minimum

## MECHANICAL

- Creepage Between Contacts . . . . . 0.16 Minimum
- Air Space Between Contacts. . . . . 0.11 Minimum
- Contacts to Accept 0.050 ± 0.001 DIA. Pins

### Contacts:

- Spring Temper Grade "A" Phosphor Bronze, or  
Heat Treated Beryllium Copper
- Gold Plated over Copper or Nickel Plate

### Mounting Hardware:




- Special Studs, Screws, Lockwashers, and Nuts

### Insulation Material:

- Choice of **MIL Approved** Thermosetting  
Insulations (See Page 45)

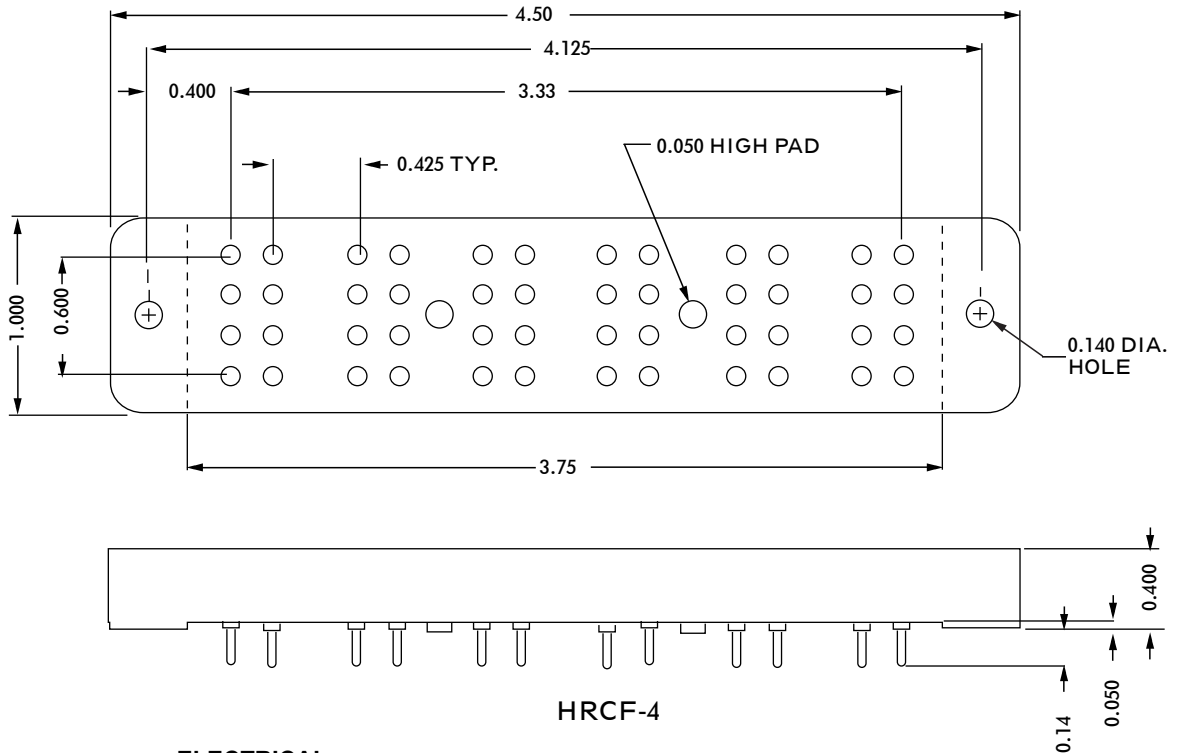
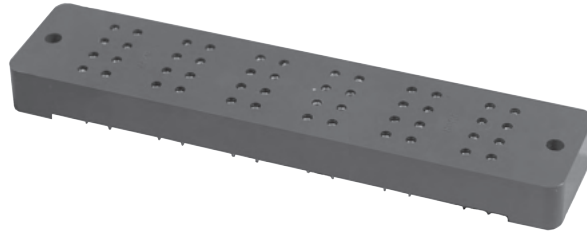
Temperature Ratings: -65°C to +125°C

Weight of Socket with Mountings: 0.39 oz.

CONTACT DATA	CHASSIS MOUNTING DATA				
	CHASSIS THICKNESS	X-DIMENSION	MOUNTING TYPE		
			BELOW CHASSIS	BELOW CHASSIS	ABOVE CHASSIS
 SOLDER CUP	1/16	.20		HRCL-1	
	3/32	.17			
	1/8	.14		HRCL-41	
 EYELET	1/16	.20		HRCL-5	
	3/32	.17		HRCL-35	
	1/8	.14		HRCL-45	
 STRAIGHT	1/16	.12			HRCL-44
	3/32	.19			HRCL-64
	1/8				



RECOMMENDED CHASSIS CUT-OUT



HRCF-4

### ELECTRICAL

- Current Rating . . . . . 10 Amperes
- Withstanding Voltage:
  - Contact to Contact Sea Level . . . . . 2700 VRMS Minimum
  - Contact to Ground Sea Level . . . . . 2250 VRMS Minimum
  - Contact to Contact 70,000 Ft. . . . . 560 VRMS Minimum
  - Contact to Ground 70,000 Ft. . . . . 500 VRMS Minimum

### MECHANICAL

- Creepage Between Contacts . . . . . 0.11 Minimum
- Air Space Between Contacts. . . . . 0.11 Minimum
- Contacts to Accept 0.050 ± 0.001 DIA. Pins

#### Contacts:

- Spring Temper Grade "A" Phosphor Bronze, or
- Heat Treated Beryllium Copper
- Gold Plated over Copper or Nickel Plate

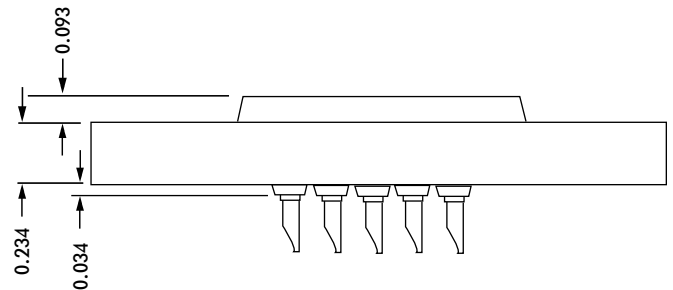
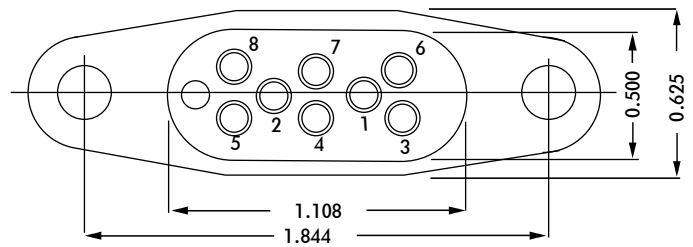
#### Mounting Hardware:

- Special Studs, Screws, Lockwashers, and Nuts

#### Insulation Material:

- Choice of **MIL Approved** Thermosetting
- Insulations (See Page 45)

- Temperature Ratings: -65°C to +125°C
- Weight of Socket with Mountings: 1.85 oz.



CONTACT DATA	CHASSIS MOUNTING DATA				
	CHASSIS THICKNESS	X-DIMENSION	X		
			BELOW CHASSIS	BELOW CHASSIS	ABOVE CHASSIS
 SOLDER CUP	1/16	.12		HRE-1	HRE-2
	3/32	.09		HRE-31	HRE-32
	1/8	.06	HRE-41		HRE-42
 EYELET	1/16	.12		HRE-5	HRE-6
	3/32	.09		HRE-35	HRE-36
	1/8	.06	HRE-45		HRE-46
 TURRET	1/16	.12		HRE-3	HRE-4
	3/32	.09		HRE-33	HRE-34
	1/8	.06	HRE-43		HRE-44
 TAPER PIN	1/16	.12		HRE-7	HRE-8
	3/32	.09		HRE-37	HRE-38
	1/8	.06	HRE-47		HRE-48

## ELECTRICAL

### Wire Size:

- Solder Cup Type . . . . . One #20 AWG
- Turret Type . . . . . Two #20 AWG or  
Three #22 AWG
- Eyelet Type . . . . . Two #20 AWG or  
Three #22 AWG
- Taper Type . . . . . One AMP #37? Taper  
Receptacle

Current Rating . . . . . 7.5 Amperes

### Withstanding Voltage:

- Contact to Contact Sea Level . . . . . 2700 VRMS Minimum
- Contact to Ground Sea Level . . . . . 6300 VRMS Minimum
- Contact to Contact 70,000 Ft. . . . . 560 VRMS Minimum
- Contact to Ground 70,000 Ft. . . . . 1065 VRMS Minimum

## MECHANICAL

- Creepage Between Contacts . . . . . 0.16 Minimum
- Air Space Between Contacts . . . . . 0.09 Minimum
- Contacts to Accept 0.040 ± 0.001 DIA. Pins

### Contacts:

- Spring Temper Grade "A" Phosphor Bronze, or  
Heat Treated Beryllium Copper
- Gold Plated over Copper or Nickel Plate

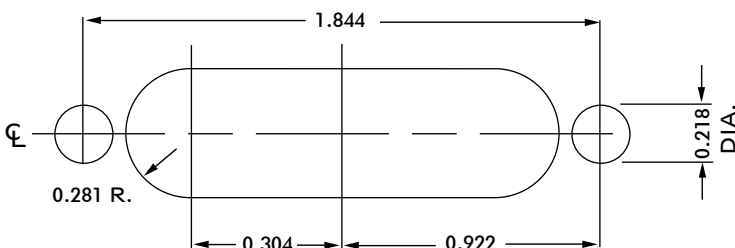
### Mounting Hardware:

- Special Studs, Screws, Lockwashers, and Nuts

### Insulation Material:

- Choice of **MIL Approved** Thermosetting  
Insulations (See Page 45)

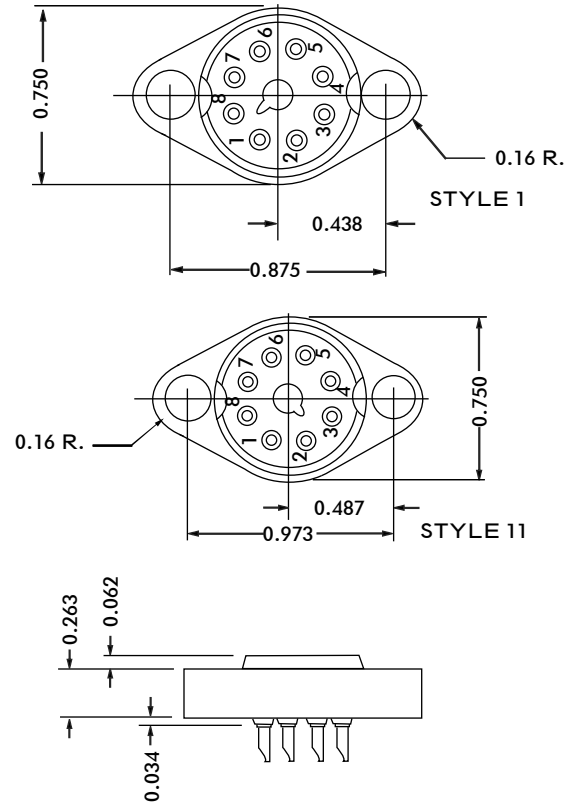
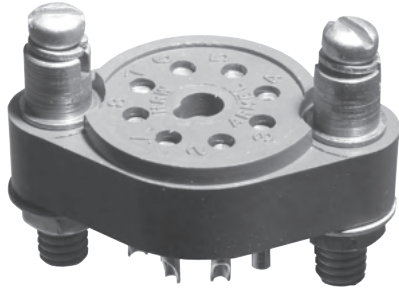
- Temperature Ratings: -65°C to +125°C
- Weight of Socket with Mountings: 0.69 oz.



RECOMMENDED CHASSIS CUT-OUT



# HRW SERIES



CONTACT DATA	CHASSIS MOUNTING DATA					
	CHASSIS THICKNESS	X-DIMENSION	STYLE	MOUNTING STYLE		
				BELOW CHASSIS	BELOW CHASSIS	ABOVE CHASSIS
	1/16	.22	I	HRW-1		HRW-2
			II	HRW-5		HRW-6
	3/32	.19	I		HRW-31	
			II		HRW-35	
	1/8		I			
			II			
	1/16	.22	I	HRW-9		HRW-10
			II	HRW-11		HRW-12
	3/32	.19	I		HRW-39	
			II		HRW-311	
	1/8		I			
			II			
	1/16	.22	I	HRW-3		HRW-4
			II	HRW-7		HRW-8
	3/32	.19	I		HRW-33	
			II		HRW-37	
	1/8		I			
			II			
	1/16	.22	I	HRW-13		HRW-14
			II	HRW-15		HRW-16
	3/32	.19	I		HRW-313	
			II		HRW-315	
	1/8		I			
			II			

## ELECTRICAL

### Wire Size:

- Solder Cup Type . . . . . One #20 AWG
- Turret Type . . . . . Two #20 AWG or  
Three #22 AWG
- Eyelet Type . . . . . Two #20 AWG or  
Three #22 AWG
- Taper Type . . . . . One AMP ?37? Taper  
Receptacle

### Current Rating . . . . . 7.5 Amperes

### Withstanding Voltage:

- Contact to Contact Sea Level . . . . . 1800 VRMS Minimum
- Contact to Ground Sea Level . . . . . 1500 VRMS Minimum
- Contact to Contact 70,000 Ft. . . . . 450 VRMS Minimum
- Contact to Ground 70,000 Ft. . . . . 375 VRMS Minimum

## MECHANICAL

- Creepage Between Contacts . . . . . 0.14 Minimum
- Air Space Between Contacts . . . . . 0.06 Minimum
- Contacts to Accept 0.040 ± 0.001 DIA. Pins

### Contacts:

- Spring Temper Grade "A" Phosphor Bronze, or  
Heat Treated Beryllium Copper
- Gold Plated over Copper or Nickel Plate

### Mounting Hardware:

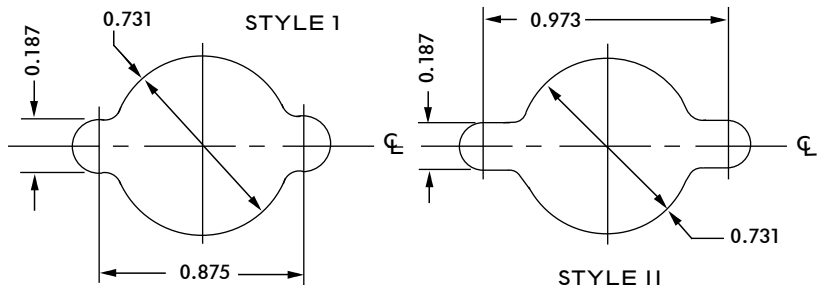
- Special Studs, Screws, Lockwashers, and Nuts

### Insulation Material:

- Choice of **MIL Approved** Thermosetting  
Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

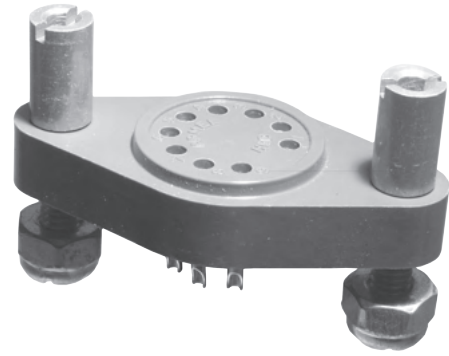
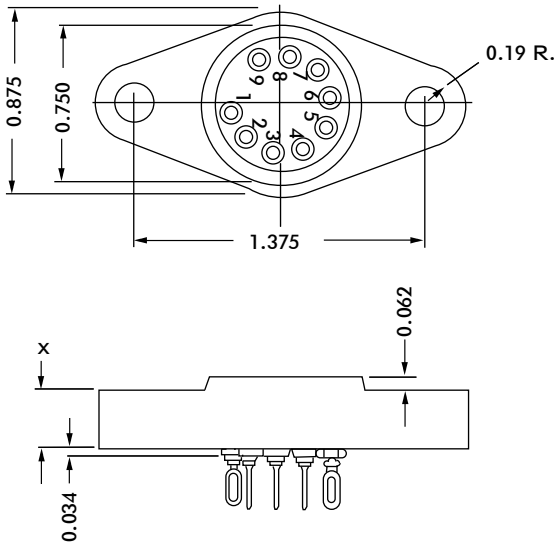
Weight of Socket with Mountings: 0.44 oz.



RECOMMENDED CHASSIS CUT-OUT



# HRD SERIES



## ELECTRICAL

Wire Size:  
 Solder Cup Type ..... One #20 AWG  
 Turret Type ..... Two #20 AWG or Three #22 AWG  
 Eyelet Type ..... Two #20 AWG or Three #22 AWG  
 Taper Type ..... One AMP #37? Taper Receptacle  
 Current Rating ..... 7.5 Amperes  
 Withstanding Voltage:  
 Contact to Contact Sea Level ..... 1800 VRMS Minimum  
 Contact to Ground Sea Level ..... 3300 VRMS Minimum  
 Contact to Contact 70,000 Ft. .... 450 VRMS Minimum  
 Contact to Ground 70,000 Ft. .... 675 VRMS Minimum

## MECHANICAL

Creepage Between Contacts ..... 0.12 Minimum  
 Air Space Between Contacts ..... 0.06 Minimum  
 Contacts to Accept 0.040 ± 0.001 DIA. Pins

### Contacts:

Spring Temper Grade "A" Phosphor Bronze, or Heat Treated Beryllium Copper  
 Gold Plated over Copper or Nickel Plate

### Mounting Hardware:

Special Studs, Screws, Lockwashers, and Nuts

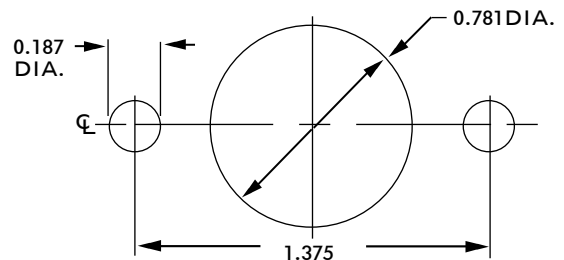
### Insulation Material:

Choice of **MIL Approved** Thermosetting Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

Weight of Socket with Mountings: 0.70 oz.

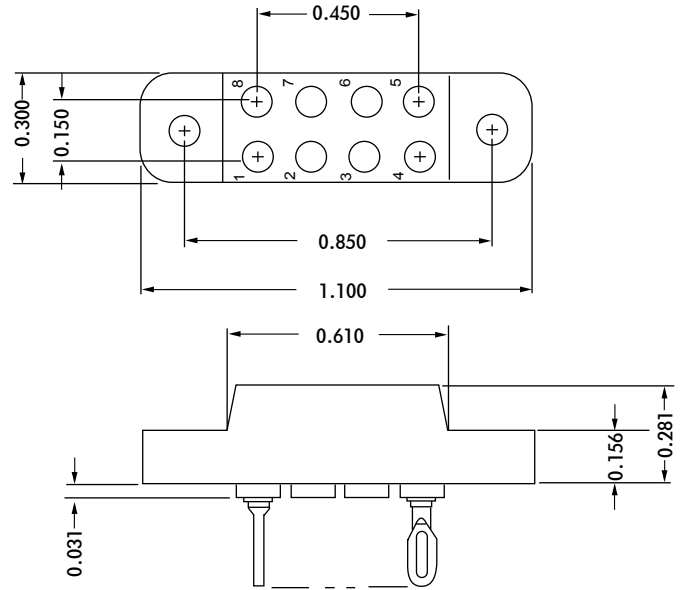
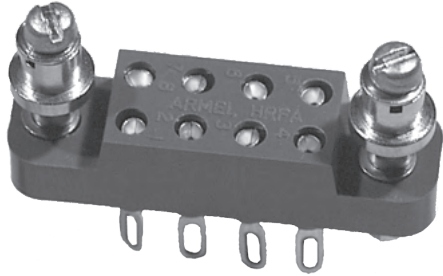
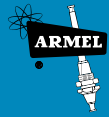
CONTACT DATA	CHASSIS MOUNTING DATA			
	CHASSIS THICKNESS	X-DIMENSION	CONTACT MOUNTING	
			BELOW CHASSIS	ABOVE CHASSIS
 SOLDER CUP	1/16	.28	HRD-1	HRD-2
	3/32	.25	HRD-31	HRD-32
	1/8	.25	HRD-41	
 EYELET	1/16	.28	HRD-5	HRD-6
	3/32	.25	HRD-35	HRD-36
	1/8	.25	HRD-45	
 TURRET	1/16	.28	HRD-3	HRD-4
	3/32	.25	HRD-33	HRD-34
	1/8	.25	HRD-43	
 TAPER PIN	1/16	.28	HRD-7	HRD-8
	3/32	.25	HRD-37	HRD-38
	1/8	.25	HRD-47	



RECOMMENDED CHASSIS CUT-OUT



# HRFA SERIES



CONTACT DATA		CHASSIS MOUNTING DATA			
		CHASSIS THICKNESS	X-DIMENSION	BELOW CHASSIS	ABOVE CHASSIS
SOLDER CUP		1/16	.17	HRFA - 1	HRFA - 2
		3/32	.14		
		1/8	.12		
EYELET		1/16	.17	HRFA - 5	HRFA - 6
		3/32	.14		
		1/8	.12		
STRAIGHT		1/16			HRFA - 4
		3/32			
		1/8			
WIRE WRAP		1/16	.17	HRFA - 23	
		3/32	.14		
		1/8	.12		
WIRE WRAP		1/16	.17	HRFA - 13	
		3/32	.14		
		1/8	.12		

### ELECTRICAL:

#### Wire Size

- Solder Cup Type. . . . . One #20 AWG
- Eyelet Type. . . . . Two #20 AWG or  
Three #22 AWG

Current Rating. . . . . 3 Amperes

#### Withstanding Voltage:

- Contact to Contact Sea Level. . . 1200 VRMS Minimum
- Contact to Ground Sea Level. . . 3300 VRMS Minimum
- Contact to Contact 70,000 Ft. . . 500 VRMS Minimum
- Contact to Ground 70,000Ft. . . 675 VRMS Minimum

### MECHANICAL:

- Creepage Between Contacts. . . . . 0.10 Minimum
- Air Space Between Contacts. . . . . 0.06 Minimum

+0.003

Contacts to Accept 0.020 - 0.001 DIA. Pins

#### Contacts:

- Spring Temper Grade "A" Phosphor Bronze or
- Heat Treated Beryllium Copper
- Gold Plated over Copper or Nickel Plate

#### Mounting Hardware:

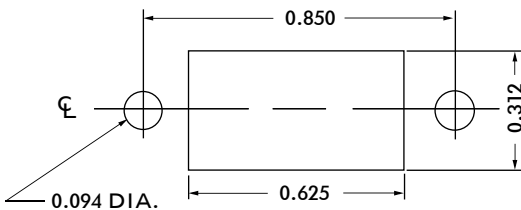
- Special Studs, Screws, Lockwashers, and Nuts

#### Insulation Material

- Choice of **MIL Approved** Thermosetting
- Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

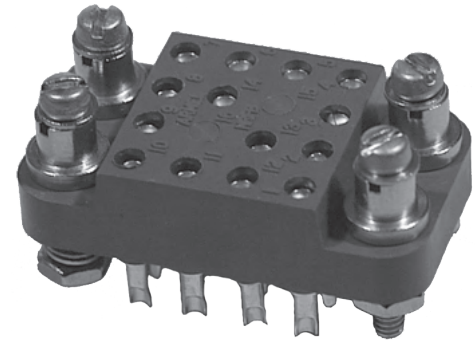
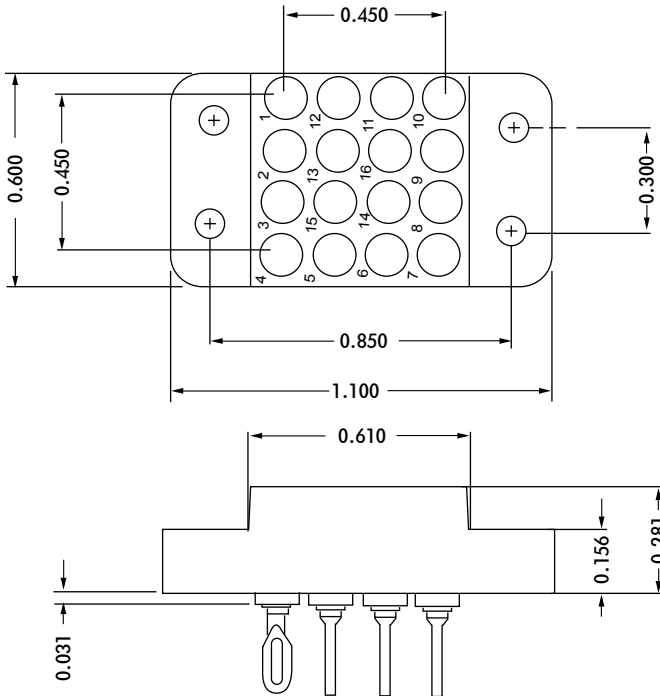
Weight of Socket with Mountings: 0.25 oz.



RECOMMENDED CHASSIS CUT-OUT



# HRFB SERIES



### ELECTRICAL:

Wire Size

Solder Cup Type. . . . . One #20 AWG  
 Eyelet Type. . . . . Two #20 AWG or  
 Three #22 AWG

Current Rating. . . . . 3 Amperes

Withstanding Voltage:

Contact to Contact Sea Level. . . 1200 VRMS Minimum  
 Contact to Ground Sea Level. . . 3300 VRMS Minimum  
 Contact to Contact 70,000 Ft. . . 500 VRMS Minimum  
 Contact to Ground 70,000 Ft. . . 675 VRMS Minimum

### MECHANICAL:

Creepage Between Contacts. . . . . 0.10 Minimum

Air Space Between Contacts. . . . . 0.06 Minimum

+0.003

Contacts to Accept 0.020 - 0.001 DIA. Pins

Contacts:

Spring Temper Grade "A" Phosphor Bronze or  
 Heat Treated Beryllium Copper  
 Gold Plated over Copper or Nickel Plate

Mounting Hardware:






Special Studs, Screws, Lockwashers, and Nuts

Insulation Material

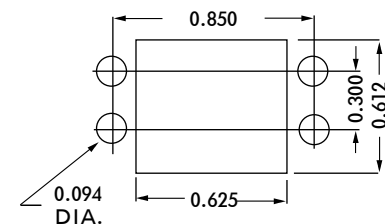
Choice of **MIL Approved** Thermosetting  
 Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

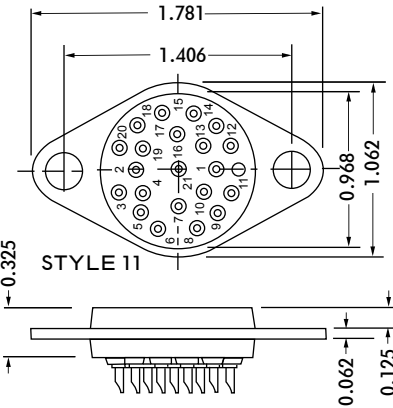
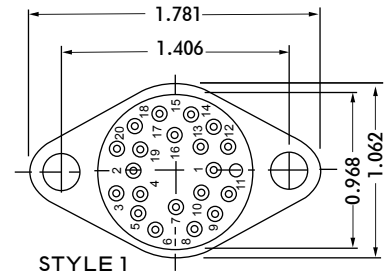
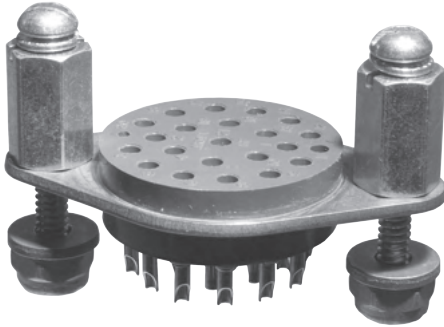
Weight of Socket with Mountings: 0.40 oz.

CONTACT DATA		CHASSIS MOUNTING DATA			
		CHASSIS THICKNESS	X-DIMENSION	NO. OF CONTACTS	
SOLDER CUP 	1/16	.17	14	HRFB - 1	HRFB - 2
			16	HRFB - 601	HRFB - 602
	3/32	.14	14		
			16		
	1/8	.12	14		
			16		
EYELET 	1/16	.17	14	HRFB - 5	HRFB - 6
			16	HRFB - 605	HRFB - 606
	3/32	.14	14		
			16		
	1/8	.12	14		
			16		
STRAIGHT 	1/16	.17	14		HRFB - 4
			16		HRFB - 614
	3/32	.14	14		
			16		
	1/8	.12	14		
			16		
WIRE WRAP 	1/16	.17	14	HRFB - 23	
			16	HRFB - 623	
	3/32	.14	14		
			16		
	1/8	.12	14		
			16		
WIRE WRAP 	1/16	.17	14	HRFB - 13	
			16	HRFB - 613	
	3/32	.14	14		
			16		
	1/8	.12	14		
			16		

OPEN ENTRY



RECOMMENDED CHASSIS CUT-OUT



CONTACT DATA		CHASSIS MOUNTING DATA				
		CHASSIS THICKNESS	STYLE	NO. OF CONTACTS		
OPEN ENTRY	SOLDER CUP	1/16	II	21	HF-50	HF-50
			I	20	HF-59	HF-59
		1/16	II	15	HF-53	HF-53
			I	14	HF-62	HF-62
		1/16	II	9	HF-56	HF-56
			I	8	HF-65	HF-65
	TURRET	1/16	II	21	HF-51	HF-51
			I	20	HF-60	HF-60
		1/16	II	15	HF-54	HF-54
			I	14	HF-63	HF-63
		1/16	II	9	HF-57	HF-57
			I	8	HF-66	HF-66
EYELET	1/16	II	21	HF-52	HF-52	
		I	20	HF-61	HF-61	
	1/16	II	15	HF-55	HF-55	
		I	14	HF-64	HF-64	
	1/16	II	9	HF-58	HF-58	
		I	8	HF-67	HF-67	
CLOSED ENTRY	SOLDER CUP	1/16	II	21	HF-50K	HF-50K
			I	20	HF-59K	HF-59K
		1/16	II	15	HF-53K	HF-53K
			I	14	HF-62K	HF-62K
		1/16	II	9	HF-56K	HF-56K
			I	8	HF-65K	HF-65K
	EYELET	1/16	II	21	HF-52K	HF-52K
			I	20	HF-61K	HF-61K
		1/16	II	15	HF-55K	HF-55K
			I	14	HF-64K	HF-64K
		1/16	II	9	HF-58K	HF-58K
			I	8	HF-67K	HF-67K

### ELECTRICAL

- Wire Size:
- Solder Cup Type . . . . . One #20 AWG
- Turret Type . . . . . Two #20 AWG or Three #22 AWG
- Eyelet Type . . . . . Two #20 AWG or Three #22 AWG
- Taper Type . . . . . One AMP ?37? Taper Receptacle
- Current Rating . . . . . 7.5 Amperes
- Withstanding Voltage:
  - Contact to Contact Sea Level . . . . . 1800 VRMS Minimum
  - Contact to Ground Sea Level . . . . . 3300 VRMS Minimum
  - Contact to Contact 70,000 Ft. . . . . 450 VRMS Minimum
  - Contact to Ground 70,000 Ft. . . . . 675 VRMS Minimum

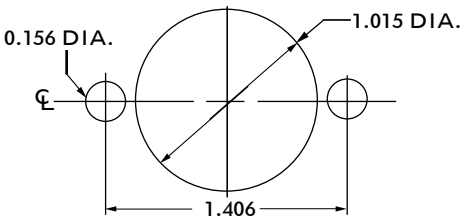
### MECHANICAL

- Creepage Between Contacts . . . . . 0.12 Minimum
- Air Space Between Contacts . . . . . 0.06 Minimum
- Contacts to Accept 0.040 ± 0.001 DIA. Pins
- Contacts:
  - Spring Temper Grade "A" Phosphor Bronze, or Heat Treated Beryllium Copper
  - Gold Plated over Copper or Nickel Plate

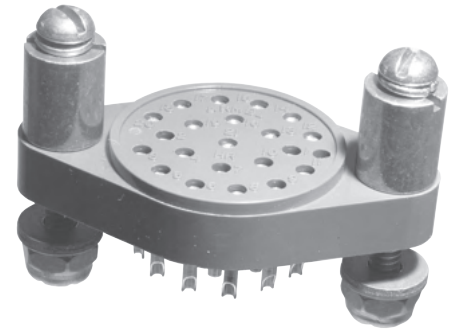
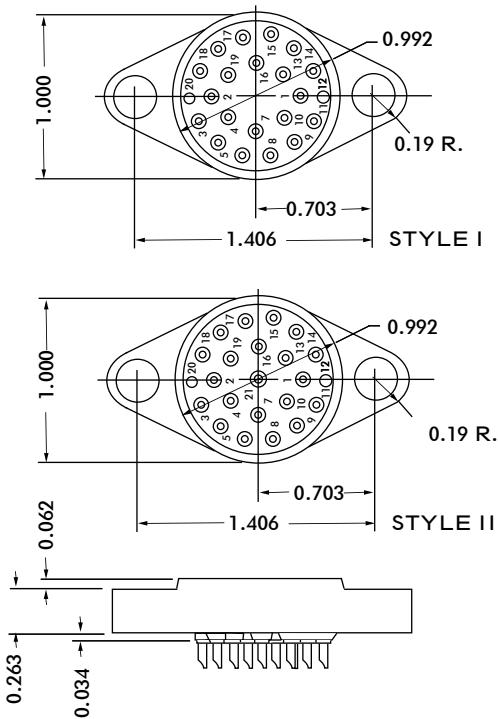
Mounting Hardware:  
Special Studs, Screws, Lockwashers, and Nuts

Insulation Material:  
Choice of **MIL Approved** Thermosetting Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C  
Weight of Socket with Mountings: 1.10 oz.



### RECOMMENDED CHASSIS CUT-OUT



### ELECTRICAL

Wire Size:

- Solder Cup Type . . . . . One #20 AWG
- Turret Type . . . . . Two #20 AWG or  
Three #22 AWG
- Eyelet Type . . . . . Two #20 AWG or  
Three #22 AWG
- Taper Type . . . . . One AMP ?37? Taper  
Receptacle

Current Rating . . . . . 7.5 Amperes

Withstanding Voltage:

- Contact to Contact Sea Level . . . . . 1800 VRMS Minimum
- Contact to Ground Sea Level . . . . . 3300 VRMS Minimum
- Contact to Contact 70,000 Ft. . . . . 450 VRMS Minimum
- Contact to Ground 70,000 Ft. . . . . 675 VRMS Minimum

### MECHANICAL

- Creepage Between Contacts . . . . . 0.12 Minimum
- Air Space Between Contacts . . . . . 0.06 Minimum
- Contacts to Accept 0.040 ± 0.001 DIA. Pins

Contacts:

- Spring Temper Grade "A" Phosphor Bronze, or  
Heat Treated Beryllium Copper
- Gold Plated over Copper or Nickel Plate

Mounting Hardware:

- Special Studs, Screws, Lockwashers, and Nuts

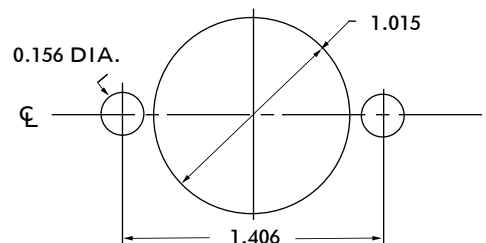
Insulation Material:

- Choice of **MIL Approved** Thermosetting  
Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

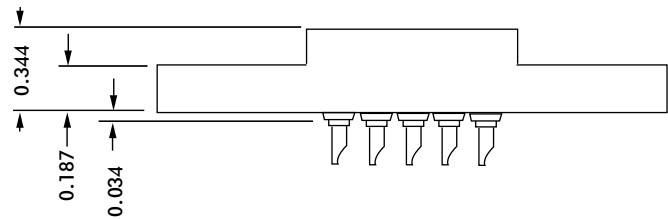
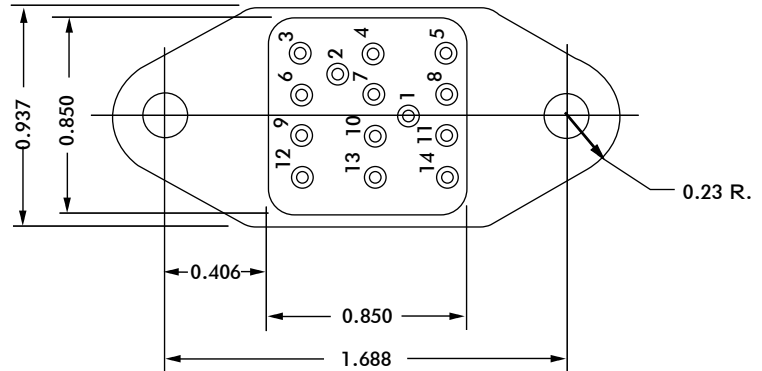
Weight of Socket with Mountings: 0.65 oz.

CONTACT DATA	CHASSIS MOUNTING DATA						
	CHASSIS THICKNESS	STYLE	NO. OF CONTACTS	MOUNTING DATA			
				BELOW CHASSIS	BELOW CHASSIS	ABOVE CHASSIS	
	1/16	II	21	HR-50		HR-50	
		I	20	HR-59		HR-59	
	3/32	II	21		HR-350		
		I	20		HR-359		
	1/16	II	15	HR-53		HR-53	
		I	14	HR-62		HR-62	
<b>SOLDER CUP</b>	1/16	II	9	HR-56		HR-56	
		I	8	HR-65		HR-65	
	1/16	II	21	HR-51		HR-51	
		I	20	HR-60		HR-60	
		1/16	II	21		HR-351	
			I	20		HR-360	
1/16		II	15	HR-54		HR-54	
		I	14	HR-63		HR-63	
1/16		II	9	HR-57		HR-57	
		I	8	HR-66		HR-66	
<b>TURRET</b>	1/16	II	21	HR-52		HR-52	
		I	20	HR-61		HR-61	
	3/32	II	21		HR-352		
		I	20		HR-361		
		1/16	II	15	HR-55		HR-55
			I	14	HR-64		HR-64
1/16		II	9	HR-58		HR-58	
		I	8	HR-67		HR-67	
1/16		II	21	HR-68		HR-68	
		I	20	HR-71		HR-71	
<b>EYELET</b>	1/16	II	21				
		I	20				
	3/32	II	21				
		I	20				
	1/16	II	15				
		I	14				
1/16	II	9					
	I	8					
<b>TAPER PIN</b>	1/16	II	21				
		I	8				

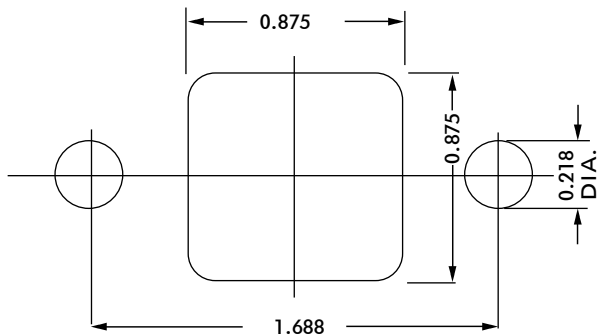


RECOMMENDED CHASSIS CUT-OUT

# HRB SERIES



CONTACT DATA	CHASSIS MOUNTING DATA				
	CHASSIS THICKNESS	X-DIMENSION	X		
			BELOW CHASSIS	ABOVE CHASSIS	
 SOLDER CUP	1/16	.12		HRB-1	HRB-2
	3/32	.09		HRB-31	HRB-32
	1/8	.06	HRB-41		HRB-42
 EYELET	1/16	.12		HRB-5	HRB-6
	3/32	.09		HRB-35	HRB-36
	1/8	.06	HRB-45		HRB-46
 TURRET	1/16	.12		HRB-3	HRB-4
	3/32	.09		HRB-33	HRB-34
	1/8	.06	HRB-43		HRB-44
 TAPER PIN	1/16	.12		HRB-7	HRB-8
	3/32	.09		HRB-37	HRB-38
	1/8	.06	HRB-47		HRB-48



RECOMMENDED CHASSIS CUT-OUT

## ELECTRICAL

- Wire Size:  
 Solder Cup Type . . . . . One #20 AWG  
 Turret Type . . . . . Two #20 AWG or  
 Three #22 AWG  
 Eyelet Type . . . . . Two #20 AWG or  
 Three #22 AWG  
 Taper Type . . . . . One AMP ?3? Taper  
 Receptacle
- Current Rating . . . . . 7.5 Amperes
- Withstanding Voltage:  
 Contact to Contact Sea Level . . . . . 2700 VRMS Minimum  
 Contact to Ground Sea Level . . . . . 5400 VRMS Minimum  
 Contact to Contact 70,000 Ft. . . . . 560 VRMS Minimum  
 Contact to Ground 70,000 Ft. . . . . 975 VRMS Minimum

## MECHANICAL

- Creepage Between Contacts . . . . . 0.16 Minimum  
 Air Space Between Contacts . . . . . 0.09 Minimum  
 Contacts to Accept 0.040 ± 0.001 DIA. Pins

## Contacts:

- Spring Temper Grade "A" Phosphor Bronze, or Heat Treated Beryllium Copper
- Gold Plated over Copper or Nickel Plate

## Mounting Hardware:

- Special Studs, Screws, Lockwashers, and Nuts

## Insulation Material:

- Choice of **MIL Approved** Thermosetting Insulations (See Page 45)

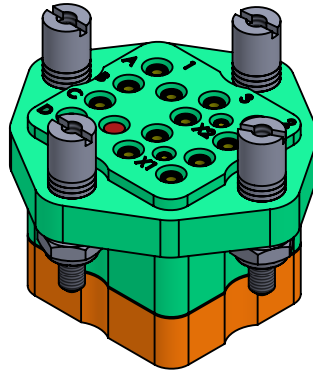
Temperature Ratings: -65°C to +125°C

Weight of Socket with Mountings: 0.96 oz.

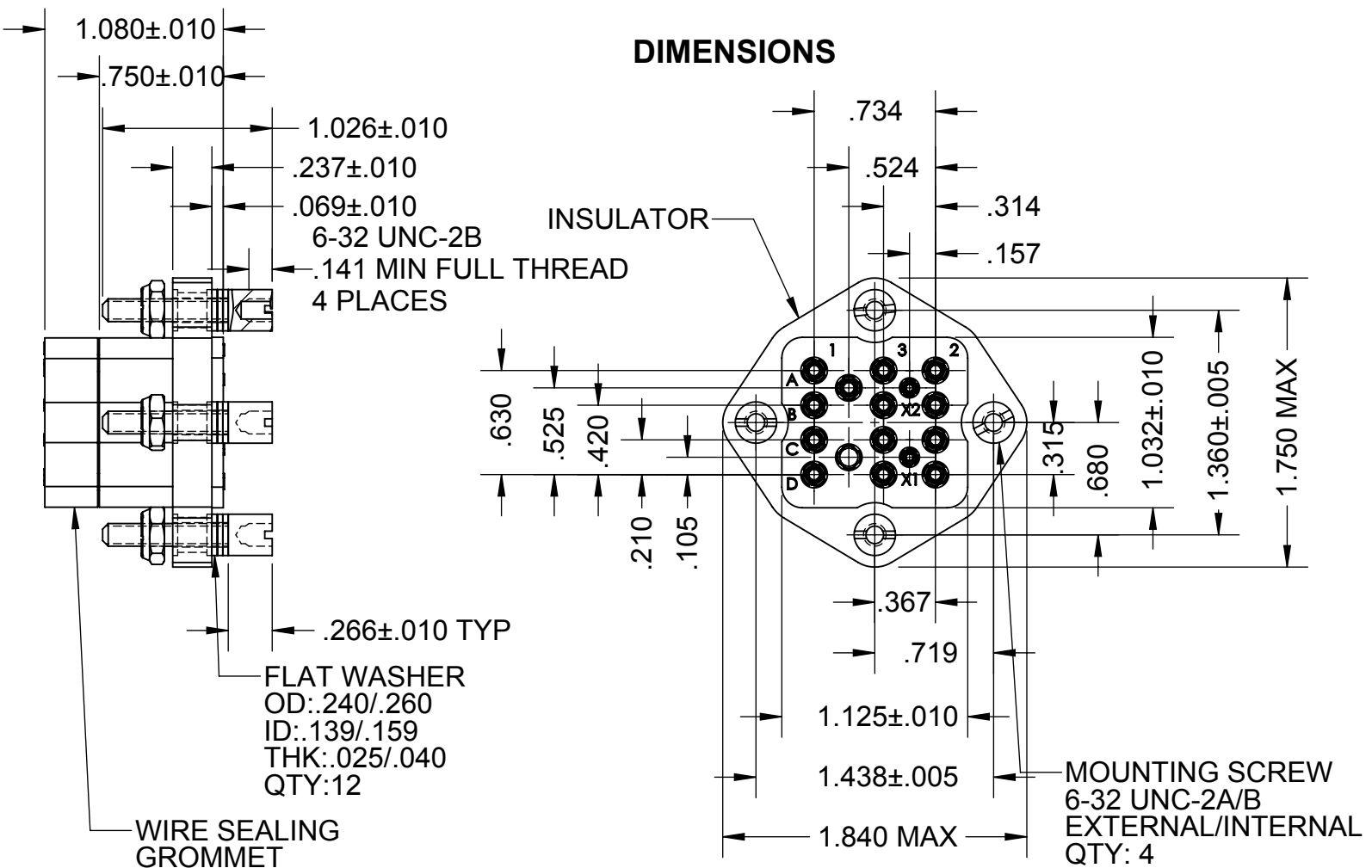


# HRGD SERIES

FOR USE WITH MS27254-1 & -2 RELAYS FEATURING CRIMP, REMOVABLE CONTACTS AND POLARIZING KEY

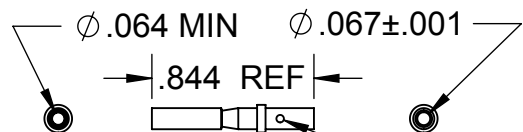


## DIMENSIONS



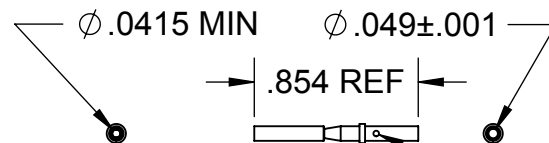
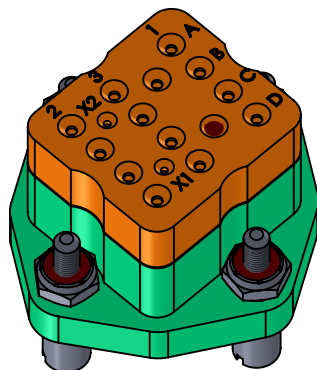
UNLESS OTHERWISE SPECIFIED, TOLERANCES FOR .XXX ARE ± .003

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 35



Ø .039 INSPECTION HOLE

16 GAUGE CONTACT DETAIL



Ø .029 INSPECTION HOLE

20 GAUGE CONTACT DETAIL

## SPECIFICATIONS

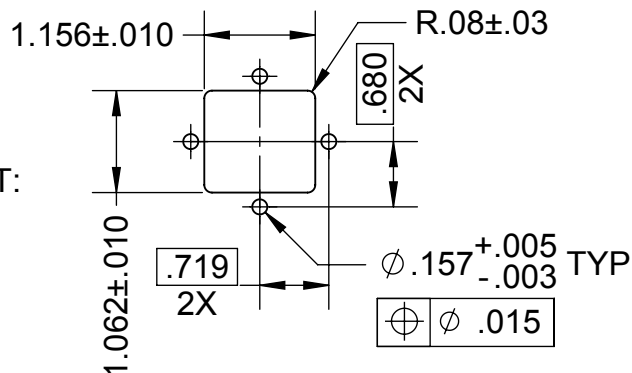
### ELECTRICAL

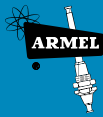
Current Rating.....10 Amperes  
 Dielectric Withstanding Voltage.....  
 Contact to Contact  
 Sea Level.....1500 VRMS @ 60 Hz

### MECHANICAL

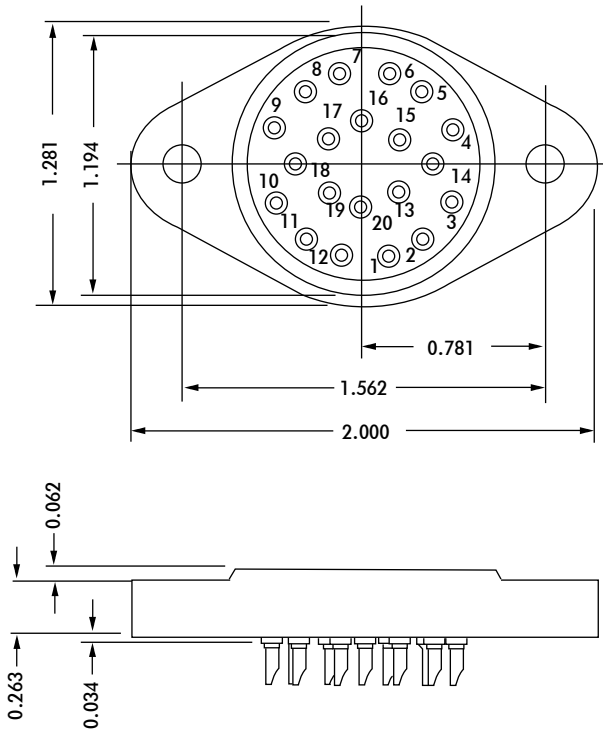
Contact Mating Pin Size.....14@ Ø .062±.001, 2@ Ø .040±.001  
 Wiring Terminal Accommodation.....14@ 16 AWG, 2@ 20 AWG  
 Contact Material & Finish.....Per Mil-C-39029/32-242 for Ø .040±.001 & Mil-C-39029/32-247 for Ø .062±.001 Mating Pin Size  
 Contact Plug Material & Finish.....Aluminum Alloy, 6061-T6511 Per AMS-QQ-A-200/8, Anodized Per MIL-A-8625, Type II, Class 2, Color: Red  
 16 & 20 Gauge Contact Retaining Clips Material and Finish.....Beryllium Copper Alloy 173, Heat Treated To Condition HT  
 Mounting Screw Insert Material and Finish.....Brass, C36000, H02 Per ASTM B-36, Nickel Flash, .0001 Inches Minimum Thickness  
 Lock Nuts Material & Finish.....Per NASM21083-C06  
 All Other Metal Hardware Material & Finish.....CRES Per ASTM A582, Type 303, Passivated Per AMS2700  
 Wire Sealing Grommet Material & Finish.....SILASTIC® FL 45-9001, Color: Orange  
 Insulation Material.....Short Glass Fiber Filled Diallyl Phthalate per ASTM D5948, Type SDG-F, Color: Green  
 Grommet/Insulator Adhesive.....Q4-2817 Fluorosilicone Sealant  
 Contact Crimping Tool.....M22520/1-01  
 Contact Installation Tool.....For M39029/32-242 Use M81969/17-03, For M39029/32-247 Use M81969/17-04.  
 Contact Removal Tool.....For M39029/32-242 Use M81969/19-07, For M39029/32-247 Use M81969/19-08.

RECOMMENDED CHASSIS CUT-OUT:





# HRS SERIES



CONTACT DATA	CHASSIS MOUNTING DATA				
	CHASSIS THICKNESS	X-DIMENSION	X		
			BELOW CHASSIS	BELOW CHASSIS	ABOVE CHASSIS
 SOLDER CUP	$\frac{1}{16}$	.12		HRS - 1	HRS - 2
	$\frac{3}{32}$	.09		HRS - 31	HRS - 32
	$\frac{1}{8}$	.06	HRS - 41		HRS - 42
 EYELET	$\frac{1}{16}$	.12		HRS - 5	HRS - 6
	$\frac{3}{32}$	.09		HRS - 35	HRS - 36
	$\frac{1}{8}$	.06	HRS - 45		HRS - 46
 TURRET	$\frac{1}{16}$	.12		HRS - 3	HRS - 4
	$\frac{3}{32}$	.09		HRS - 33	HRS - 34
	$\frac{1}{8}$	.06	HRS - 43		HRS - 44
 TAPER PIN	$\frac{1}{16}$	.12		HRS - 7	HRS - 8
	$\frac{3}{32}$	.09		HRS - 37	HRS - 38
	$\frac{1}{8}$	.06	HRS - 47		HRS - 48
 STRAIGHT	$\frac{1}{16}$				HRS - 10
	$\frac{3}{32}$				
	$\frac{1}{8}$				

## ELECTRICAL

- Wire Size:
- Solder Cup Type ..... One #20 AWG
- Turret Type ..... Two #20 AWG or  
Three #22 AWG
- Eyelet Type ..... Two #20 AWG or  
Three #22 AWG
- Taper Type ..... One AMP "37" Taper  
Receptacle
- Current Rating ..... 7.5 Amperes
- Withstanding Voltage:
- Contact to Contact Sea Level ..... 2700 VRMS Minimum
- Contact to Ground Sea Level ..... 2700 VRMS Minimum
- Contact to Contact 70,000 Ft. .... .560 VRMS Minimum
- Contact to Ground 70,000 Ft. .... .560 VRMS Minimum

## MECHANICAL

- Creepage Between Contacts ..... 0.16 Minimum
- Air Space Between Contacts ..... 0.09 Minimum
- Contacts to Accept 0.040 ± 0.001 DIA. Pins

### Contacts:

- Spring Temper Grade "A" Phosphor Bronze, or Heat Treated Beryllium Copper
- Gold Plated over Copper or Nickel Plate

### Mounting Hardware:

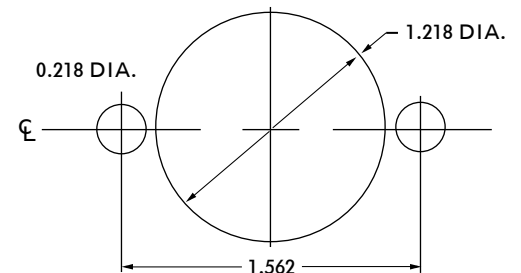
- Special Studs, Screws, Lockwashers, and Nuts

### Insulation Material:

- Choice of "MIL Approved" Thermosetting Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

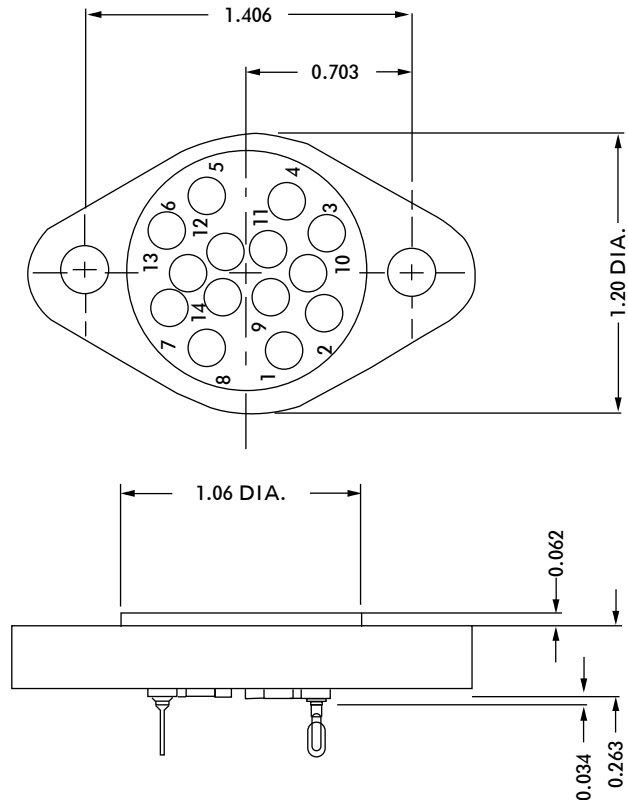
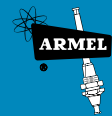
Weight of Socket with Mountings: 0.96 oz.



RECOMMENDED CHASSIS CUT-OUT



# HRSA SERIES



CONTACT DATA	CHASSIS MOUNTING DATA				
	CHASSIS THICKNESS	X-DIMENSION	MOUNTING TYPE		
			BELOW CHASSIS	BELOW CHASSIS	ABOVE CHASSIS
 SOLDER CUP	1/16	.12		HRSA - 1K	
	3/32	.09		HRSA - 31K	
	1/8	.06	HRSA - 41K		
 EYELET	1/16	.12		HRSA - 5K	HRSA - 6K
	3/32	.09		HRSA - 35K	
	1/8	.06	HRSA - 45K		
 STRAIGHT	1/16				HRSA - 10K
	3/32				
	1/8				

## ELECTRICAL

Wire Size:

Solder Cup Type . . . . . One #20 AWG  
 Eyelet Type . . . . . Two #20 AWG or  
 Three #22 AWG

Current Rating . . . . . 7.5 Amperes

Withstanding Voltage:

Contact to Contact Sea Level . . . . . 2700 VRMS Minimum  
 Contact to Ground Sea Level . . . . . 2700 VRMS Minimum  
 Contact to Contact 70,000 Ft. . . . . 560 VRMS Minimum  
 Contact to Ground 70,000 Ft. . . . . 560 VRMS Minimum

## MECHANICAL

Creepage Between Contacts . . . . . 0.16 Minimum  
 Air Space Between Contacts . . . . . 0.10 Minimum  
 Contacts to Accept 0.040 ± 0.001 DIA. Pins

Contacts:

Spring Temper Grade "A" Phosphor Bronze, or  
 Heat Treated Beryllium Copper  
 Gold Plated over Copper or Nickel Plate

Mounting Hardware:

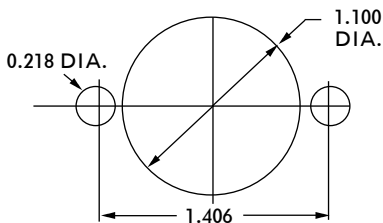
Special Studs, Screws, Lockwashers, and Nuts

Insulation Material:

Choice of "MIL Approved" Thermosetting  
 Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

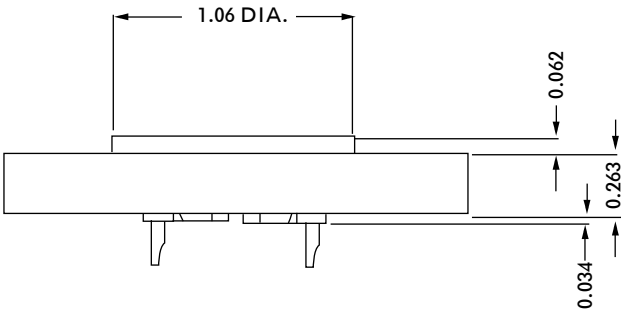
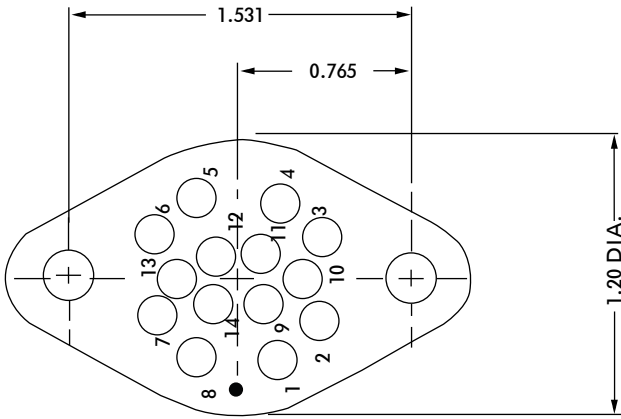
Weight of Socket with Mountings: 0.95 oz.



RECOMMENDED CHASSIS CUT-OUT



# HRSB SERIES



### ELECTRICAL

Wire Size:

- Solder Cup Type . . . . . One #20 AWG
- Eyelet Type . . . . . Two #20 AWG or Three #22 AWG

Current Rating . . . . . 7.5 Amperes

Withstanding Voltage:

- Contact to Contact Sea Level . . . . . 2700 VRMS Minimum
- Contact to Ground Sea Level . . . . . 2700 VRMS Minimum
- Contact to Contact 70,000 Ft. . . . . 560 VRMS Minimum
- Contact to Ground 70,000 Ft. . . . . 560 VRMS Minimum

### MECHANICAL

- Creepage Between Contacts . . . . . 0.16 Minimum
- Air Space Between Contacts . . . . . 0.10 Minimum
- Contacts to Accept 0.040 ± 0.001 DIA. Pins

Contacts:

- Spring Temper Grade "A" Phosphor Bronze, or Heat Treated Beryllium Copper
- Gold Plated over Copper or Nickel Plate

Mounting Hardware:

- Special Studs, Screws, Lockwashers, and Nuts

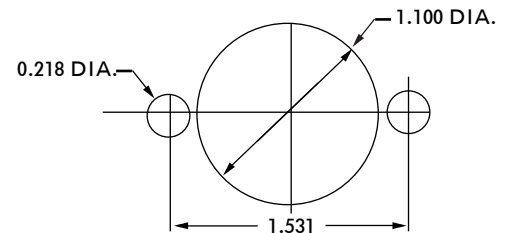
Insulation Material:

- Choice of "MIL Approved" Thermosetting Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

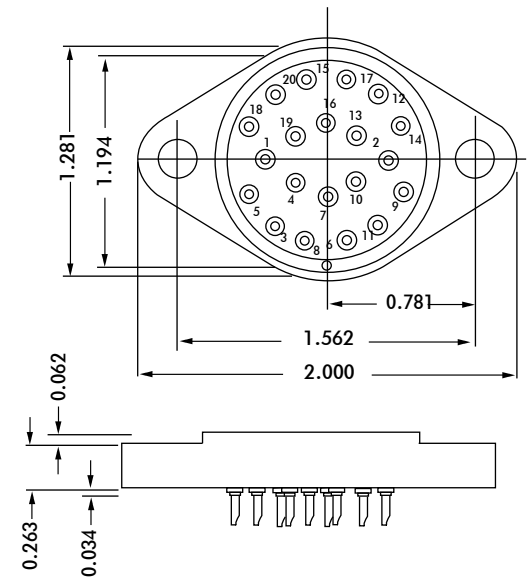
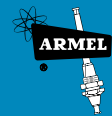
Weight of Socket with Mountings: 0.95 oz.

CLOSED ENTRY	CONTACT DATA	CHASSIS MOUNTING DATA		
		CHASSIS THICKNESS	X-DIMENSION	
 SOLDER CUP	 1/16	.12		HRSB - 1K
	 3/32	.09		HRSB - 31K
	 1/8			
 EYELET	 1/16	.12		HRSB - 5K    HRSB - 6K
	 3/32	.09		HRSB - 35K
	 1/8	.06	HRSB - 45K	
 STRAIGHT	 7/32	.12		HRSB - 4K    HRSB - 10K
	 3/32			
	 1/8			

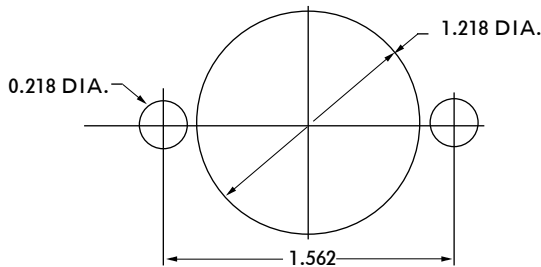


RECOMMENDED CHASSIS CUT-OUT

# HRSE SERIES



CONTACT DATA	CHASSIS MOUNTING DATA				
	CHASSIS THICKNESS	X-DIMENSION	BELOW CHASSIS	BELOW CHASSIS	ABOVE CHASSIS
 SOLDER CUP	$\frac{1}{16}$	.12		HRSE - 1	HRSE - 2
	$\frac{3}{32}$	.09		HRSE - 31	HRSE - 32
	$\frac{1}{8}$	.06	HRSE - 41		HRSE - 42
 EYELET	$\frac{1}{16}$	.12		HRSE - 5	HRSE - 6
	$\frac{3}{32}$	.09		HRSE - 35	HRSE - 36
	$\frac{1}{8}$	.06	HRSE - 45		HRSE - 46
 TURRET	$\frac{1}{16}$	.12		HRSE - 3	HRSE - 4
	$\frac{3}{32}$	.09		HRSE - 33	HRSE - 34
	$\frac{1}{8}$	.06	HRSE - 43		HRSE - 44
 TAPER PIN	$\frac{1}{16}$	.12		HRSE - 7	HRSE - 8
	$\frac{3}{32}$	.09		HRSE - 37	HRSE - 38
	$\frac{1}{8}$	.06	HRSE - 47		HRSE - 48



RECOMMENDED CHASSIS CUT-OUT

## ELECTRICAL

Wire Size:

- Solder Cup Type . . . . . One #20 AWG
  - Turret Type . . . . . Two #20 AWG or Three #22 AWG
  - Eyelet Type . . . . . Two #20 AWG or Three #22 AWG
  - Taper Type . . . . . One AMP "37" Taper Receptacle
- Current Rating . . . . . 7.5 Amperes

Withstanding Voltage:

- Contact to Contact Sea Level . . . . .2700 VRMS Minimum
- Contact to Ground Sea Level . . . . .2700 VRMS Minimum
- Contact to Contact 70,000 Ft. . . . . 560 VRMS Minimum
- Contact to Ground 70,000 Ft. . . . .560 VRMS Minimum

## MECHANICAL

- Creepage Between Contacts . . . . . 0.16 Minimum
- Air Space Between Contacts . . . . . 0.09 Minimum
- Contacts to Accept 0.040 ±0.001 DIA. Pins

Contacts:

- Spring Temper Grade "A" Phosphor Bronze, or Heat Treated Beryllium Copper
- Gold Plated over Copper or Nickel Plate

Mounting Hardware:

- Special Studs, Screws, Lockwashers, and Nuts

Insulation Material:

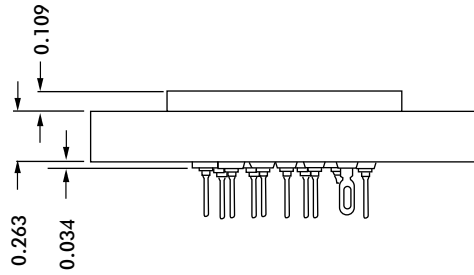
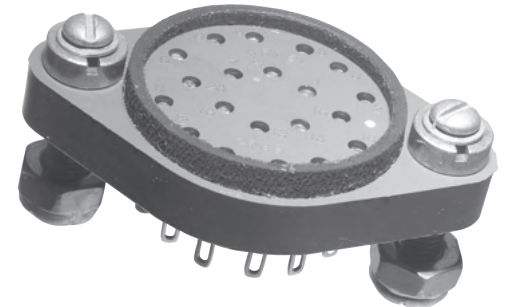
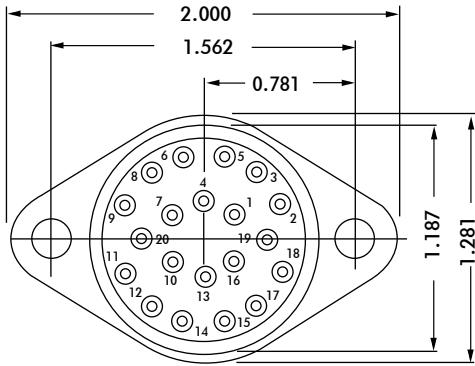
- Choice of "MIL Approved" Thermosetting Insulations (See Page 45)






Temperature Ratings: -65°C to +125°C

Weight of Socket with Mountings: 0.96 oz.



# HRSS SERIES



CONTACT DATA	CHASSIS MOUNTING DATA				
	CHASSIS THICKNESS	X-DIMENSION	X		
			BELOW CHASSIS	ABOVE CHASSIS	
 SOLDER CUP	1/16	.12		HRSS - 1	HRSS - 2
	3/32	.09		HRSS - 31	HRSS - 32
	1/8	.06	HRSS - 41		HRSS - 42
 EYELET	1/16	.12		HRSS - 5	HRSS - 6
	3/32	.09		HRSS - 35	HRSS - 36
	1/8	.06	HRSS - 45		HRSS - 46
 TURRET	1/16	.12		HRSS - 3	HRSS - 4
	3/32	.09		HRSS - 33	HRSS - 34
	1/8	.06	HRSS - 43		HRSS - 44
 TAPER PIN	1/16				
	3/32				
	1/8				
 STRAIGHT	1/16				HRSS - 210
	3/32				
	1/8				HRSS - 2910

## ELECTRICAL

### Wire Size:

- Solder Cup Type . . . . . One #20 AWG
- Turret Type . . . . . Two #20 AWG or Three #22 AWG
- Eyelet Type . . . . . Two #20 AWG or Three #22 AWG
- Taper Type . . . . . One AMP "37" Taper Receptacle

Current Rating . . . . . 7.5 Amperes

### Withstanding Voltage:

- Contact to Contact Sea Level . . . . . 2700 VRMS Minimum
- Contact to Ground Sea Level . . . . . 2700 VRMS Minimum
- Contact to Contact 70,000 Ft. . . . . 560 VRMS Minimum
- Contact to Ground 70,000 Ft. . . . . 560 VRMS Minimum

## MECHANICAL

- Creepage Between Contacts . . . . . 0.16 Minimum
- Air Space Between Contacts . . . . . 0.09 Minimum
- Contacts to Accept 0.040 ± 0.001 DIA. Pins

### Contacts:

- Spring Temper Grade "A" Phosphor Bronze, or Heat Treated Beryllium Copper
- Gold Plated over Copper or Nickel Plate

### Mounting Hardware:

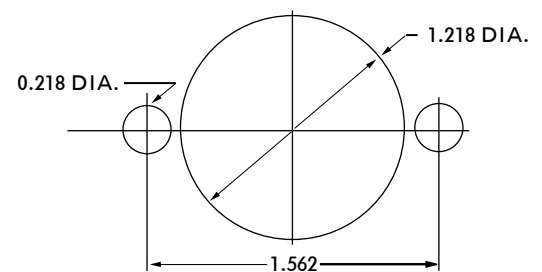
- Special Studs, Screws, Lockwashers, and Nuts

### Insulation Material:

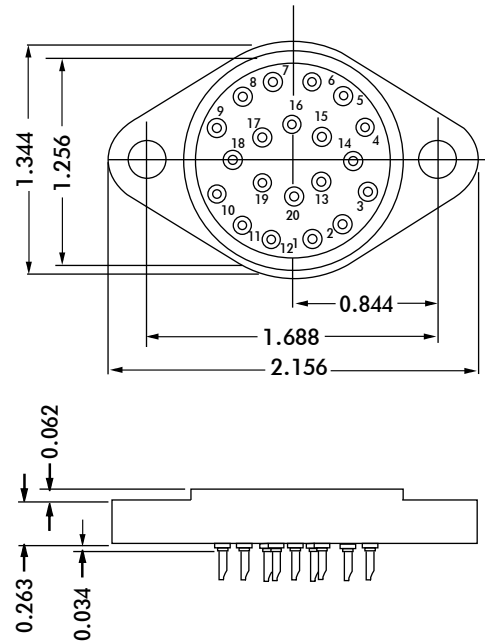
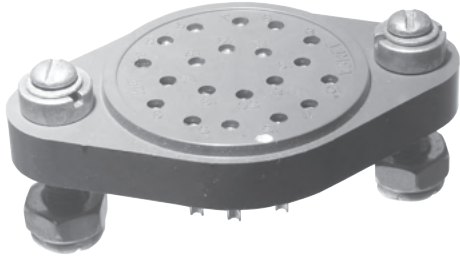
- Choice of "MIL Approved" Thermosetting Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

Weight of Socket with Mountings: 0.96 oz.



RECOMMENDED CHASSIS CUT-OUT



CONTACT DATA	CHASSIS MOUNTING DATA				
	CHASSIS THICKNESS	X-DIMENSION	BELOW CHASSIS	BELOW CHASSIS	ABOVE CHASSIS
		1/16	.12		
SOLDER CUP	3/32	.09			HRL - 1
	1/8	.06	HRL - 41		HRL - 2
					HRL - 31
EYELET	1/16	.12			HRL - 5
	3/32	.09			HRL - 6
	1/8	.06	HRL - 45		HRL - 35
TURRET	1/16	.12			HRL - 3
	3/32	.09			HRL - 4
	1/8	.06	HRL - 43		HRL - 33
TAPER PIN	1/16				HRL - 7
	3/32				HRL - 8
	1/8		HRL - 47		HRL - 37
STRAIGHT	1/16				HRL - 3
	3/32				HRL - 4
	1/8				HRL - 43

### ELECTRICAL

#### Wire Size:

- Solder Cup Type . . . . . One #20 AWG
- Turret Type . . . . . Two #20 AWG or Three #22 AWG
- Eyelet Type . . . . . Two #20 AWG or Three #22 AWG
- Taper Type . . . . . One AMP "37" Taper Receptacle

Current Rating . . . . . 7.5 Amperes

#### Withstanding Voltage:

- Contact to Contact Sea Level . . . . . 2700 VRMS Minimum
- Contact to Ground Sea Level . . . . . 3300 VRMS Minimum
- Contact to Contact 70,000 Ft. . . . . 560 VRMS Minimum
- Contact to Ground 70,000 Ft. . . . . 675 VRMS Minimum

### MECHANICAL

- Creepage Between Contacts . . . . . 0.16 Minimum
- Air Space Between Contacts . . . . . 0.09 Minimum
- Contacts to Accept 0.040 ± 0.001 DIA. Pins

#### Contacts:

- Spring Temper Grade "A" Phosphor Bronze, or Heat Treated Beryllium Copper
- Gold Plated over Copper or Nickel Plate

#### Mounting Hardware:

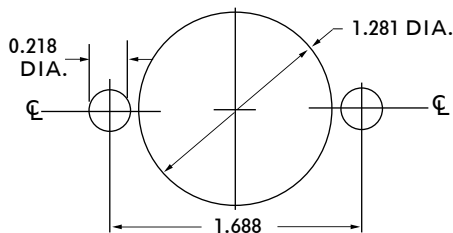
- Special Studs, Screws, Lockwashers, and Nuts

#### Insulation Material:

- Choice of "MIL Approved" Thermosetting Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

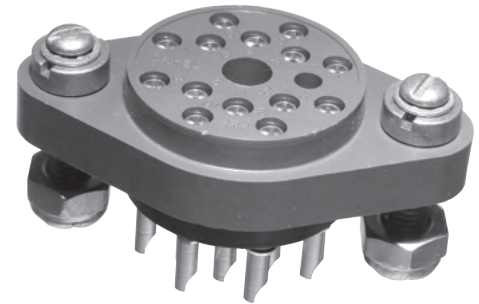
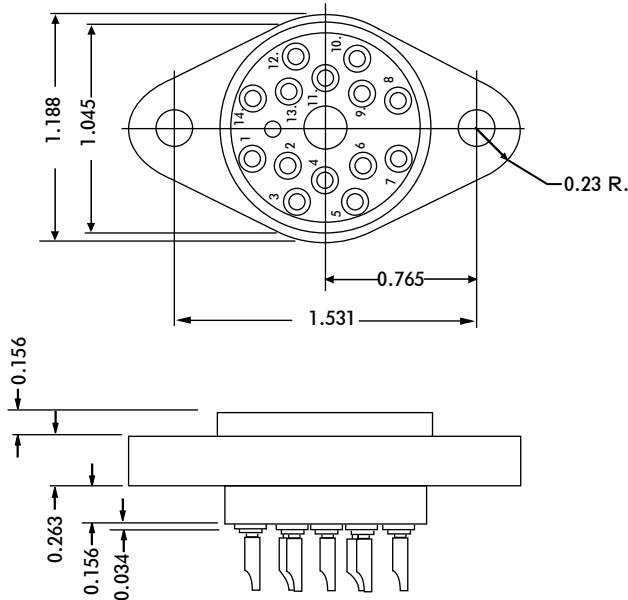
Weight of Socket with Mountings: 0.96 oz.



RECOMMENDED CHASSIS CUT-OUT



# HRH SERIES



## ELECTRICAL

### Wire Size:

- Solder Cup Type . . . . . One #16 AWG or Two #20 AWG
- Turret Type . . . . . Two #20 AWG or Three #20 AWG

Current Rating . . . . . 13 Amperes

### Withstanding Voltage:

- Contact to Contact Sea Level . . . . . 1500 VRMS Minimum
- Contact to Ground Sea Level . . . . . 2700 VRMS Minimum
- Contact to Contact 70,000 Ft. . . . . 375 VRMS Minimum
- Contact to Ground 70,000 Ft. . . . . 560 VRMS Minimum

## MECHANICAL

- Creepage Between Contacts . . . . . 0.11 Minimum
- Air Space Between Contacts . . . . . 0.05 Minimum
- Contacts to Accept 0.062 ± 0.001 DIA. Pins

### Contacts:

- Spring Temper Grade "A" Phosphor Bronze, or Heat Treated Beryllium Copper
- Gold Plated over Copper or Nickel Plate

### Mounting Hardware:

- Special Studs, Screws, Lockwashers, and Nuts

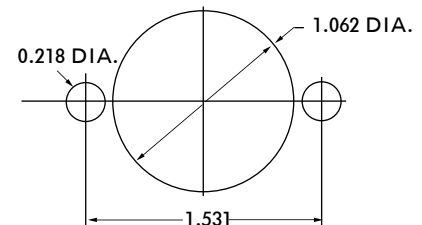
### Insulation Material:

- Choice of "MIL Approved" Thermosetting Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

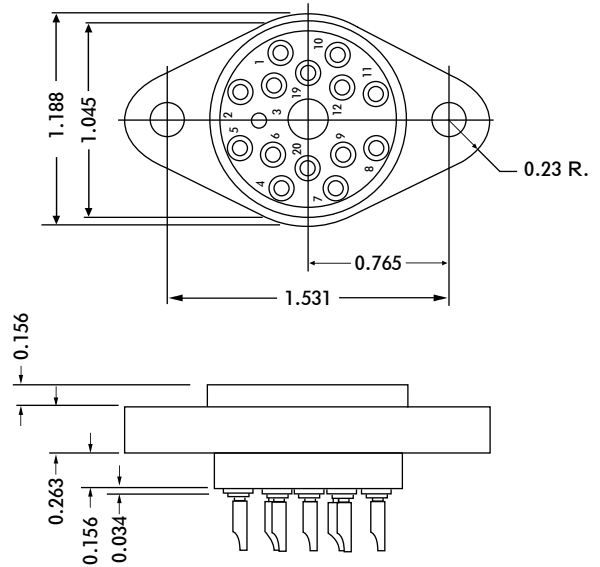
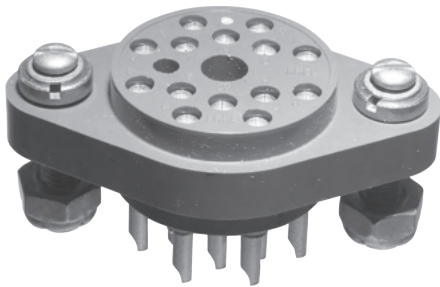
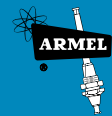
Weight of Socket with Mountings: 1.39 oz.

CONTACT DATA	CHASSIS MOUNTING DATA				
	CHASSIS THICKNESS	X-DIMENSION	MOUNTING TYPE		
			BELOW CHASSIS	BELOW CHASSIS	ABOVE CHASSIS
 <b>SOLDER CUP</b>	1/16	.12		HRH - 1	HRH - 2
	3/32	.09		HRH - 31	HRH - 32
	1/8	.06		HRH - 41	HRH - 42
 <b>TURRET</b>	1/16	.12		HRH - 3	HRH - 4
	3/32	.09		HRH - 33	HRH - 34
	1/8	.06		HRH - 43	HRH - 44
 <b>WIRE WRAP</b>	0.045 SQ.	.12		HRH - 9	
	1/8				



RECOMMENDED CHASSIS CUT-OUT

# HRHA SERIES



CONTACT DATA	CHASSIS MOUNTING DATA				
	CHASSIS THICKNESS	X-DIMENSION	BELOW CHASSIS		ABOVE CHASSIS
5/16 SOLDER CUP	1/16	.09		HRHA - 1	HRHA - 2
	3/32	.06	HRHA - 31		HRHA - 32
11/32 TURRET	1/8				HRHA - 42
	1/16	.09			
	3/32	.06			
	1/8				

## ELECTRICAL

Wire Size:

Solder Cup Type . . . . . One #16 AWG  
Turret Type . . . . . Two #16 AWG or  
Three #20 AWG

Current Rating . . . . . 13 Amperes

Withstanding Voltage:

Contact to Contact Sea Level . . . . . 1500 VRMS Minimum  
Contact to Ground Sea Level . . . . . 2700 VRMS Minimum  
Contact to Contact 70,000 Ft. . . . . 375 VRMS Minimum  
Contact to Ground 70,000 Ft. . . . . 560 VRMS Minimum

## MECHANICAL

Creepage Between Contacts . . . . . 0.11 Minimum  
Air Space Between Contacts . . . . . 0.05 Minimum  
Contacts to Accept 0.062 ± 0.001 DIA. Pins

Contacts:

Spring Temper Grade "A" Phosphor Bronze, or  
Heat Treated Beryllium Copper  
Gold Plated over Copper or Nickel Plate

Mounting Hardware:

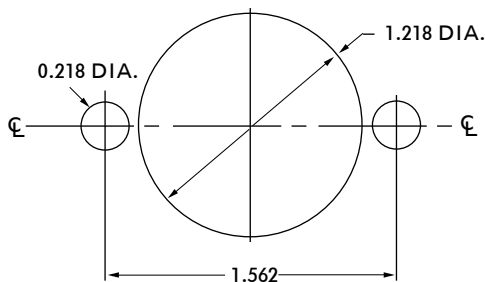
Special Studs, Screws, Lockwashers, and Nuts

Insulation Material:

Choice of "MIL Approved" Thermosetting  
Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

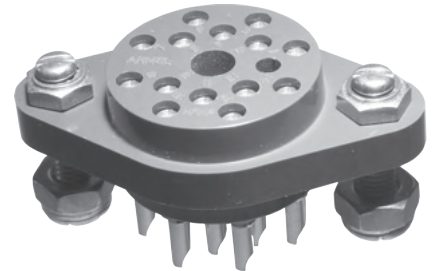
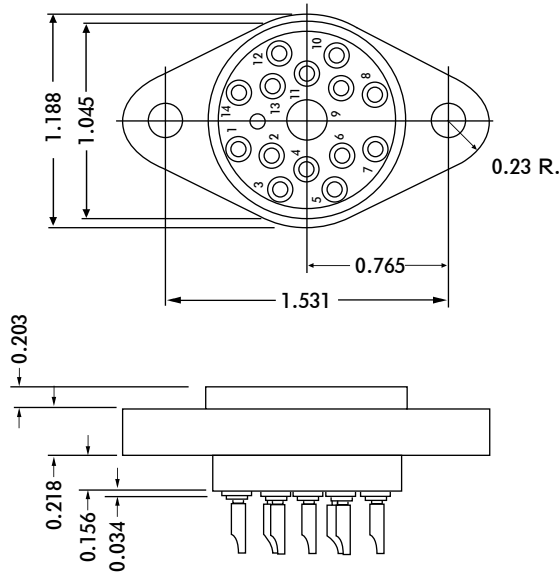
Weight of Socket with Mountings: 1.39 oz.



RECOMMENDED CHASSIS CUT-OUT



# HRHF SERIES



## ELECTRICAL

Wire Size:

Solder Cup Type . . . . . One #16 AWG or  
 Two #20 AWG  
 Turret Type . . . . . Two #16 AWG or  
 Three #20 AWG

Current Rating . . . . . 13 Amperes

Withstanding Voltage:

Contact to Contact Sea Level . . . . . 1500 VRMS Minimum  
 Contact to Ground Sea Level . . . . . 2700 VRMS Minimum  
 Contact to Contact 70,000 Ft. . . . . 375 VRMS Minimum  
 Contact to Ground 70,000 Ft. . . . . 560 VRMS Minimum

## MECHANICAL

Creepage Between Contacts . . . . . 0.11 Minimum  
 Air Space Between Contacts . . . . . 0.05 Minimum  
 Contacts to Accept 0.062 ± 0.001 DIA. Pins

Contacts:

Spring Temper Grade "A" Phosphor Bronze, or  
 Heat Treated Beryllium Copper  
 Gold Plated over Copper or Nickel Plate

Mounting Hardware:

Special Studs, Screws, Lockwashers, and Nuts

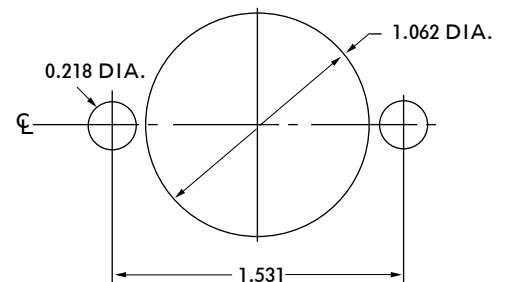
Insulation Material:

Choice of "MIL Approved" Thermosetting  
 Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

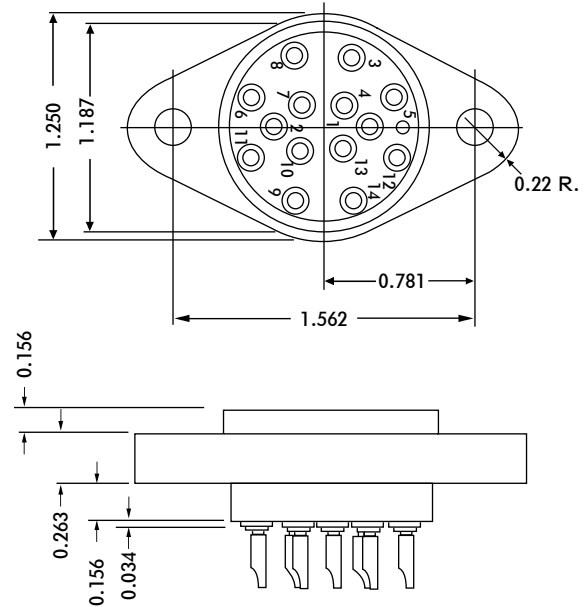
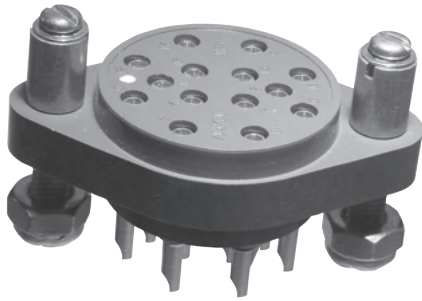
Weight of Socket with Mountings: 1.39 oz.

CONTACT DATA	CHASSIS MOUNTING DATA				
	CHASSIS THICKNESS	X-DIMENSION	BELOW CHASSIS	BELOW CHASSIS	ABOVE CHASSIS
	1/16	.12		HRHF - 21	HRHF - 22
	3/32	.09	HRHF - 31		HRHF - 32
<b>SOLDER CUP</b>	1/8	.06	HRHF - 41		HRHF - 42
	1/16	.12		HRHF - 23	HRHF - 24
	3/32	.09	HRHF - 33		HRHF - 34
	1/8	.06	HRHF - 43		HRHF - 44



RECOMMENDED CHASSIS CUT-OUT





CONTACT DATA	CHASSIS MOUNTING DATA				
	CHASSIS THICKNESS	X-DIMENSION	X		
			BELOW CHASSIS	BELOW CHASSIS	ABOVE CHASSIS
 SOLDER CUP	1/16	.44		HRP - 1	HRP - 2
	3/32	.41		HRP - 31	HRP - 32
	1/8	.38		HRP - 41	HRP - 42
 TURRET	1/16	.44		HRP - 3	HRP - 4
	3/32	.41		HRP - 33	HRP - 34
	1/8	.38		HRP - 43	HRP - 44
 WIRE WRAP	1/16	.44		HRP - 19	
	3/32	.41		HRP - 39	
	1/8	.38		HRP - 49	

### ELECTRICAL

Wire Size:

Solder Cup Type . . . . . One #16 AWG or  
Two #20 AWG  
Turret Type . . . . . Two #16 AWG or  
Three #20 AWG

Current Rating . . . . . 13 Amperes

Withstanding Voltage:

Contact to Contact Sea Level . . . . . 1800 VRMS Minimum  
Contact to Ground Sea Level . . . . . 2700 VRMS Minimum  
Contact to Contact 70,000 Ft. . . . . 450 VRMS Minimum  
Contact to Ground 70,000 Ft. . . . . 560 VRMS Minimum

### MECHANICAL

Creepage Between Contacts . . . . . 0.12 Minimum  
Air Space Between Contacts . . . . . 0.06 Minimum  
Contacts to Accept 0.062 ± 0.001 DIA. Pins

Contacts:

Spring Temper Grade "A" Phosphor Bronze, or  
Heat Treated Beryllium Copper  
Gold Plated over Copper or Nickel Plate

Mounting Hardware:

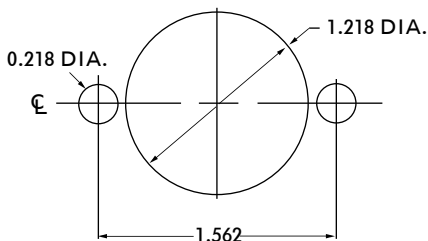
Special Studs, Screws, Lockwashers, and Nuts

Insulation Material:

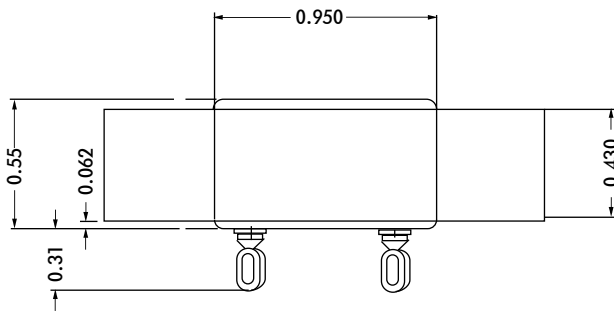
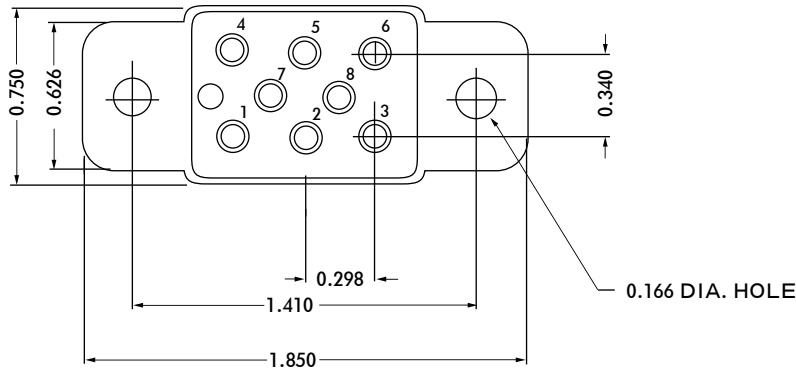
Choice of "MIL Approved" Thermosetting  
Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C

Weight of Socket with Mountings: 1.54 oz.



RECOMMENDED CHASSIS CUT-OUT



HRV-285

**ELECTRICAL**

Wire Size:  
 Solder Cup Type ..... N.A.  
 Eyelet Type ..... One #16 AWG or  
 Two #20 AWG  
 Current Rating ..... 10 Amperes

**MECHANICAL**

Creepage Between Contacts ..... 0.07 Minimum  
 Air Space Between Contacts ..... 0.07 Minimum  
 Contacts to Accept 0.060 ± 0.005 DIA. Pins

Contacts:

Heat Treated Beryllium Copper  
 Gold Plated over Copper or Nickel Plate

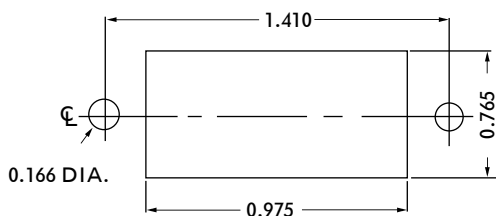
Mounting Hardware:

Special Studs, Screws, Lockwashers, and Nuts

Insulation Material:

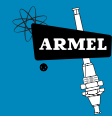
Choice of "MIL Approved" Thermosetting  
 Insulations (See Page 45)

Temperature Ratings: -65°C to +125°C  
 Weight of Socket with Mountings: 0.85 oz.



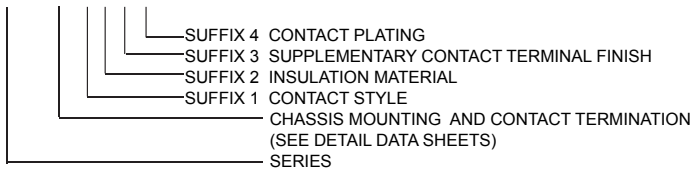
RECOMMENDED CHASSIS CUT-OUT

# ORDERING INSTRUCTIONS



## PART NUMBER

HRCC - 41 K J F V2



## MATERIAL CERTIFICATIONS

### SUFFIX 1

NONE OPEN-ENTRY CONTACTS  
K CLOSED-ENTRY CONTACTS

### SUFFIX 2

J DIALLYL PHTHALATE, GLASS-FIBER FILLED PER MIL-M-14, TYPE GDI 30F  
L DIALLYL PHTHALATE, GLASS-FIBER FILLED PER MIL-M-14, TYPE SDG-F  
L2 DIALLYL PHTHALATE, GLASS-FIBER FILLED PER MIL-M-14, TYPE SDG-F COLOR BLACK  
H DIALLYL PHTHALATE, ORLON-FILLED PER MIL-M-14, TYPE SDI-5

### SUFFIX 3

NONE NO SUPPLEMENTARY CONTACT TERMINAL FINISH  
F SOLDER (60-40) WITH WATER SOLUBLE ROSIN FLUX  
(SOLDER CUP-PREFILLED)  
(EYELET, STRAIGHT PIN, AND TURRET-DIPPED)

### SUFFIX 4

V2 GOLD PLATE (0.00005) PER MIL-G-45204, TYPE II, CLASS 1 OVER COPPER PLATE  
T3 GOLD PLATE (0.00005) PER MIL-G-45204, TYPE II, CLASS 1 OVER NICKEL PLATE  
(0.0001) PER QQ-N-290, TYPE VII, CLASS 1 (LOW STRESS NICKEL) OVER COPPER  
PLATE PER MIL-C-14550, CLASS 4  
T6 GOLD PLATE PER MIL-G-45204, TYPE II, CLASS 1, GRADE C OVER GOLD PLATE PER  
MIL-G-45204, TYPE I, CLASS 00, GRADE A OVER NICKEL PLATE PER QQ-N-290  
30-50 MICROINCHES (LOW STRESS NICKEL) OVER COPPER PLATE PER MIL-C-14550  
CLASS 4  
OTHER PLATINGS AVAILABLE UPON REQUEST

### GENERAL

1. MEET OR EXCEED APPLICABLE REQUIREMENTS OF MIL-S-12883
2. UTILIZE PRECISION MACHINED CONTACTS OF SPRING TEMPER PHOSPHOR BRONZE AND/OR HEAT-TREATED BERYLLIUM COPPER. **AN ARMEL FIRST IS THE USE OF CONTACTS WITH EYELET-TYPE WIRE CONNECTION.**
3. ALL CONTACTS FREE FLOATING AND SECURELY CONTAINED.
4. CLOSED-ENTRY CONTACTS MEET PROBE DAMAGE TEST OF MIL-C-5015
5. CONTACTS GOLD PLATED FOR LOW CONTACT RESISTANCE
6. ADAPTABLE FOR AUTOMATION
7. REDUCES POSSIBILITY OF MOISTURE CONTAMINATION

## MATERIAL AND FINISH SPECIFICATIONS

STAINLESS STEEL	QQ-S-763/766 TYPE 303 (NON-MAGNETIC)
COLD ROLL STEEL	QQ-S-640, COMPOSITION CR
BRASS	QQ-B-626
PHOSPHOR BRONZE	QQ-B-750
BERYLLIUM COPPER	QQ-C-533
CADMIUM PLATE	QQ-P-416, TYPE II, CLASS 2
NICKEL PLATE	QQ-N-290, TYPE VII, CLASS 2
PASSIVATE	QQ-P-35 / AMS 2700
HOT TIN DIP	MIL-T-10727, TYPE II

## ARMEL ELECTRONICS, INC.

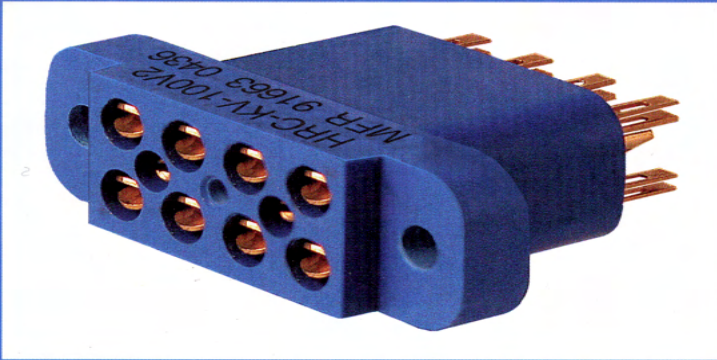
1601 75TH STREET NORTH BERGEN, NJ 07047

FAX 201-869-4304

WEBSITE [WWW.ARMELELECTRONICS.COM](http://WWW.ARMELELECTRONICS.COM)

E-MAIL [INFO@ARMELELECTRONICS.COM](mailto:INFO@ARMELELECTRONICS.COM)

# KELVIN SERIES



## ARMEL KELVIN SOCKETS

In Molded DAP bodies are NOW AVAILABLE from ARMEL.

Please call 800-840-0666 or e-mail [info@armel.us](mailto:info@armel.us) for detailed information regarding these and a complete line of Mil-Spec and Mil-COTS connectors, sockets, terminals and custom hardware.

### TECHNICAL DATA:

CURRENT RATING: 15 AMP

CONTACT MATERIALS:

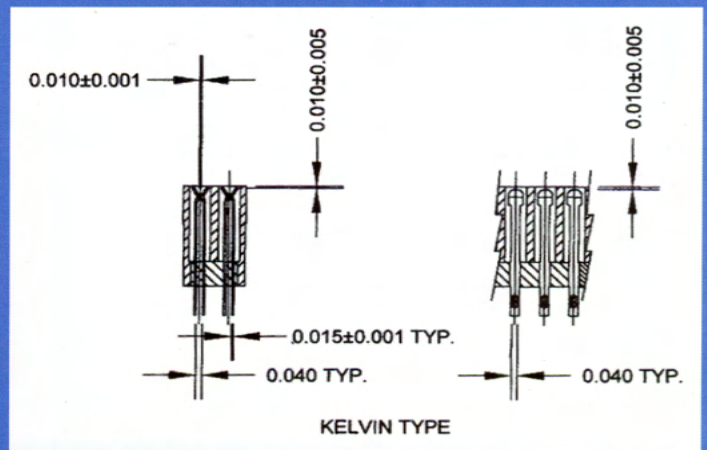
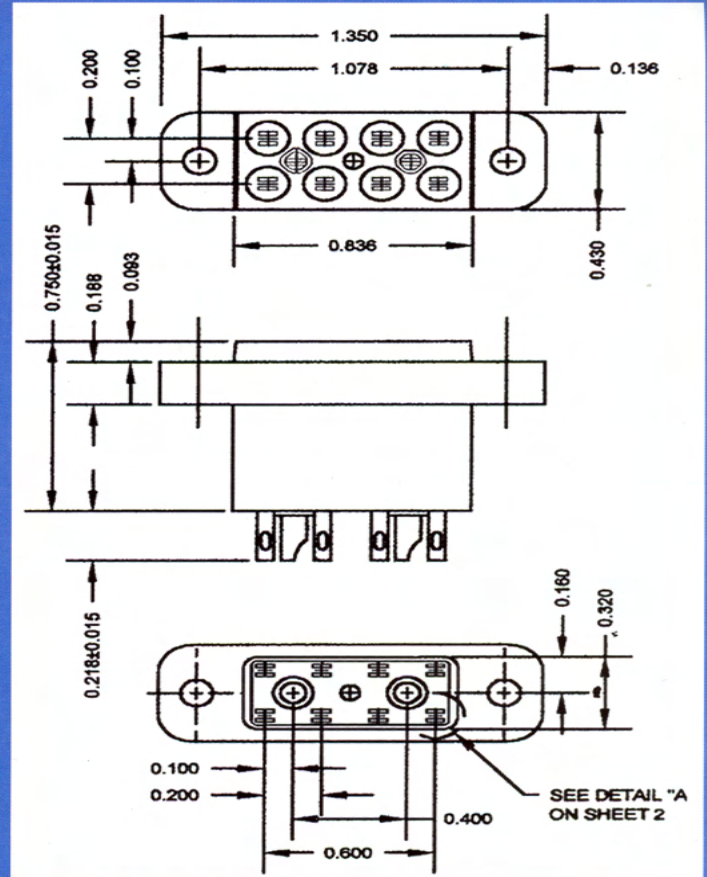
PHOSPHOR BRONZE PER QQ-B-750, OR  
BERYLIUM COPPER PER QQ-C-530

INSULATION MATERIAL:

DIALYL ORTHO PHTHALATE PER MIL-M-14

### CUSTOM DESIGNED SOCKETS ARE ALSO AVAILABLE

WE CAN DESIGN TO MEET YOUR EXACT NEEDS SO THAT THE SOCKETS WILL MEET YOUR TEST REQUIREMENTS. CONTACT ARMEL'S SALES DEPARTMENT AT 1-800-840-0666 FOR FULL DETAILS.



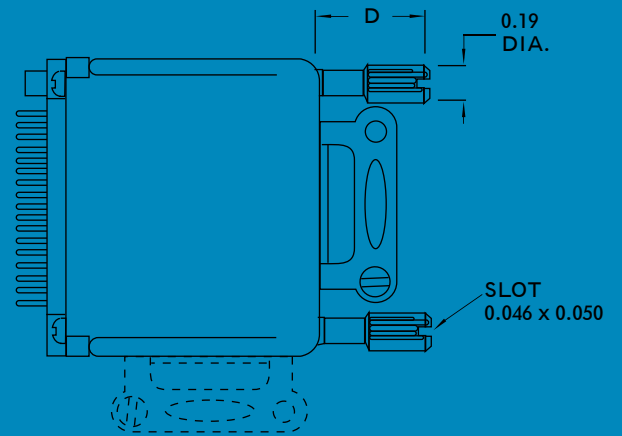
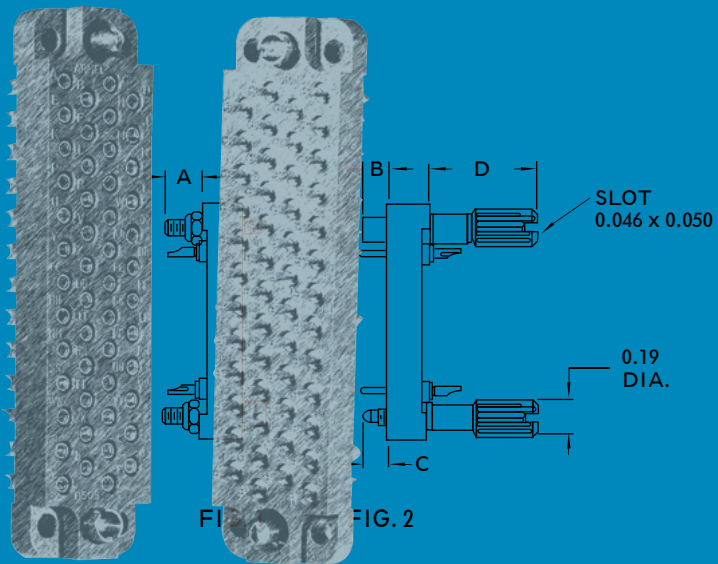
## ARMEL ELECTRONICS, INC.

1601 75TH STREET

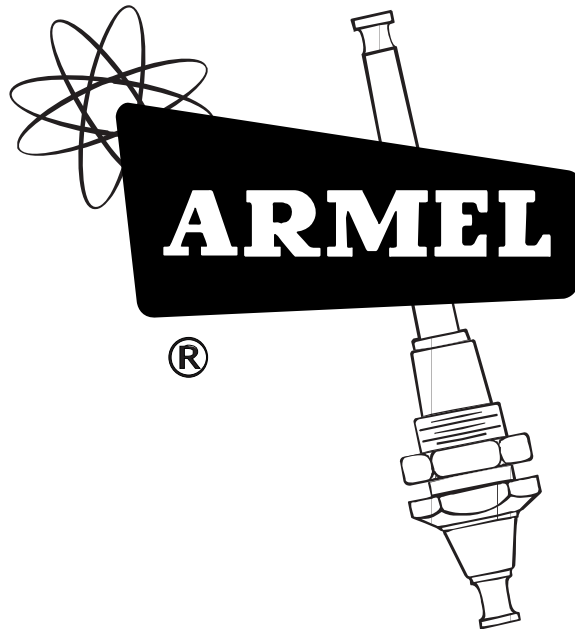
NORTH BERGEN, NEW JERSEY 07047

PHONE: 800-840-0666 • FAX: 201-869-4304 • E-MAIL: [INFO@ARMEL.US](mailto:INFO@ARMEL.US)





# rack and panel connectors



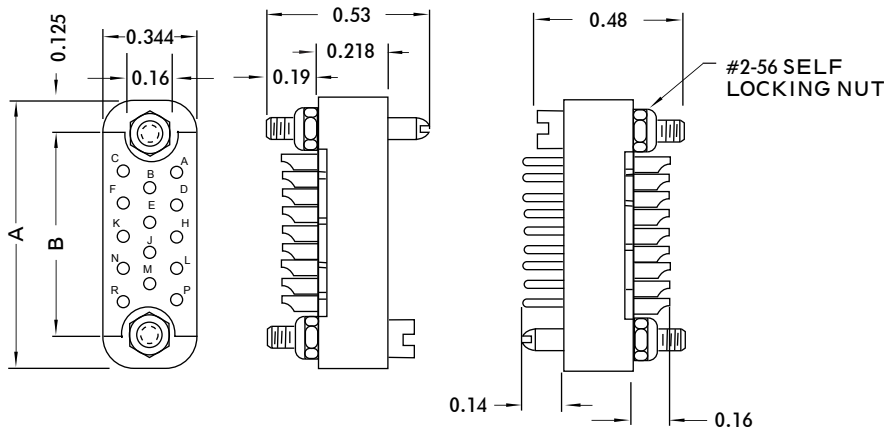


# CONNECTOR INDEX

The rack and panel connectors produced by Armel Electronics, Inc. have been designed to comply with the highest performance requirements for aircraft, communication, and other electronic systems. Rigorous, in-process inspections and stringent quality control requirements have guaranteed the required performance.

These connectors, designed for today's applications, offer proof of our capability to design connectors for your specific requirement.

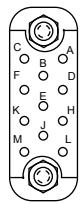
STYLE	PART	PAGE
"D" SERIES SUB-MINIATURE	11 14 20 26	1
	34 42 50	2
	HOODS	3
	LOCKING DEVICES	4
	SPECIFICATIONS	5
"MP" SERIES MINIATURE	6 10 14	6
	18 22	7
	HOODS	8
"DP" SERIES MINIATURE	SPECIFICATIONS	9
	SPECIFICATIONS	10
"SN" SERIES POWER	14 20	11
	SPECIFICATIONS	12
"SP" SERIES POWER	7 11	13
	SPECIFICATIONS	14
"SMP" SERIES	11 17	15
	SPECIFICATIONS	16
"PCPCP" SERIES	14, SPECIFICATIONS	16
	3S 3AS 4S 5S	17
	3P 3AP 4P 5P	18
	S SPECIFICATIONS	19
	P SPECIFICATIONS	20
"TR39P1" SERIES	39	21
	SPECIFICATIONS	22



D11S-1JV2



D11P-1JV2



D11S



D14S



D20S

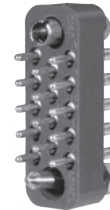


2D26S

TERMINAL IDENTIFICATION  
(VIEWED FROM WIRING END OF  
FEMALE CONNECTOR)



D14S-1JV2



D14P-1JV2



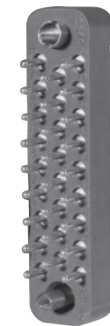
D20S-1JV2



D20P-1JV2



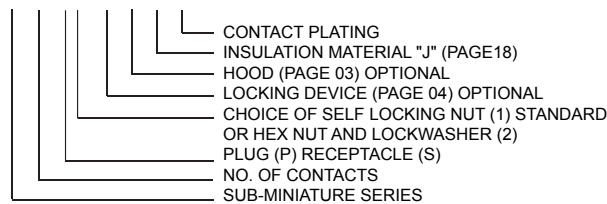
2D26S-1JV2



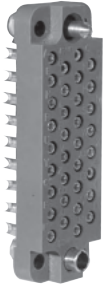
2D26P-1JV2

Part No.	Type	No. Of Contact	Weight	Dimensions	
				A	B
D11 S 1JV2	RECEPTACLE	11	0.11 oz.	0.88	0.625
D11 P 1JV2	PLUG		0.14 oz.		
D14 S 1JV2	RECEPTACLE	14	0.13 oz.	1.00	0.750
D14 P 1JV2	PLUG		0.15 oz.		
D20 S 1JV2	RECEPTACLE	20	0.16 oz.	1.25	1.000
D20 P 1JV2	PLUG		0.20 oz.		
D26 S 1JV2	RECEPTACLE	26	0.19 oz.	1.50	1.250
D26 P 1JV2	PLUG		0.24 oz.		

D 34 P1 -32 HI J V2



FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 05



D34S-1JV2



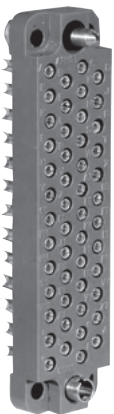
D34P-1JV2



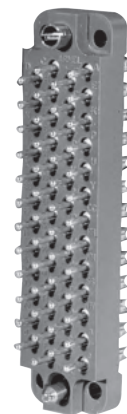
D42S-1JV2



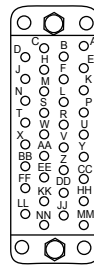
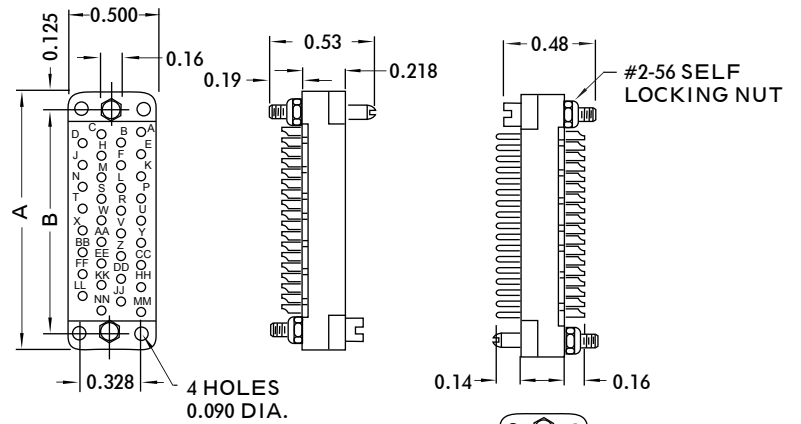
D42P-1JV2



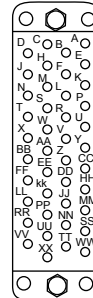
D50S-1JV2



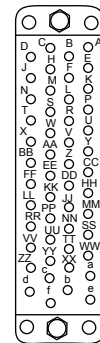
D50P-1JV2



D34S



D42S

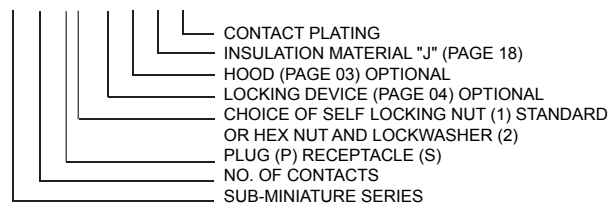


D50S

TERMINAL IDENTIFICATION  
(VIEWED FROM WIRING END OF  
FEMALE CONNECTOR)

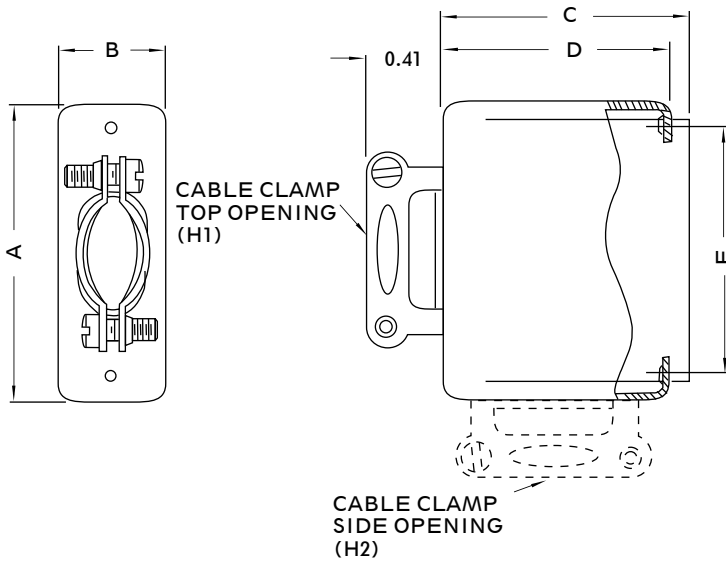
Part No.	Type	No. Of Contact	Weight	Dimensions	
				A	B
D34 S IJV2	RECEPTACLE	34	0.24 oz.	1.56	1.312
D34 P IJV2	PLUG		0.31 oz.		
D42 S IJV2	RECEPTACLE	42	0.30 oz.	1.81	1.562
D42 P IJV2	PLUG		0.39 oz.		
D50 S IJV2	RECEPTACLE	50	0.34 oz.	2.06	1.812
D50 P IJV2	PLUG		0.46 oz.		

D 34 P1 -32 HI J V2



FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 05





D34 H1



D50 H2

Part No.	Clamp Position	Clamp Opening	Weight (Hood)	Dimensions				
				A	B	C	D	E
D11 H1	TOP	0.25 X 0.28	0.24 oz.	0.94	0.41	1.09	0.94	0.62
D11 H2	SIDE							
D14 H1	TOP	0.25 X 0.34	0.27 oz.	1.06	0.41	1.09	0.94	0.75
D14 H2	SIDE							
D20 H1	TOP	0.25 X 0.44	0.30 oz.	1.31	0.41	1.31	1.19	1.00
D20 H2	SIDE							
D26 H1	TOP	0.25 X 0.56	0.33 oz.	1.56	0.41	1.31	1.19	1.25
D26 H2	SIDE							
D34 H1	TOP	0.31 X 0.59	0.36 oz.	1.56	0.56	1.31	1.19	1.31
D34 H2	SIDE							
D42 H1	TOP	0.38 X 0.67	0.39 oz.	1.81	0.56	1.31	1.19	1.56
D42 H2	SIDE							
D50 H1	TOP	0.38 X 0.67	0.41 oz.	2.06	0.56	1.31	1.19	1.81
D50 H2	SIDE							

**NOTE:** CONNECTOR AND HOOD ASSEMBLY ORDER AS I.E. D20S-1-H1JV2

**SPECIFICATIONS:**

The aluminum hood with cable clamps provide excellent strain relief characteristics for the cable, forms a shield and acts as a convenient grip when disconnecting plug and receptacle.

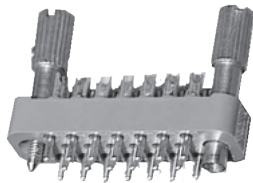
Cable Clamp is mounted on 4 (instead of conventional 2) mounting legs, thereby providing a more rigid mounting with no cable sway in any direction.

**Mounting:**

Hood may be mounted on either male or female half of connector.

Material . . . . . Aluminum per QQ-A-318  
 Finish. . . . . Anodized per MIL-A-8625

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 05



D20P1-31JV2



D20S1-21JV2

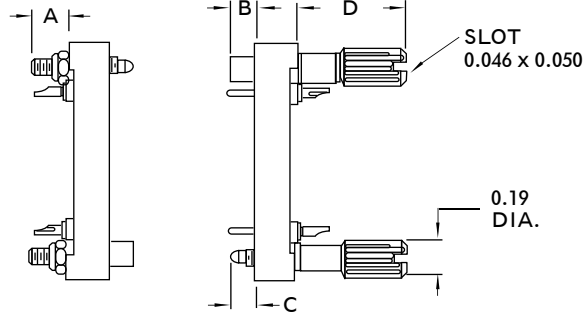
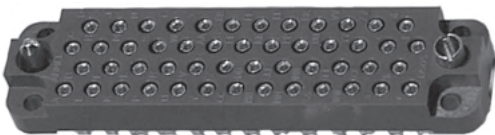


FIG. 1

FIG. 2



D50P1-32HIJV2



D50S1-21JV2

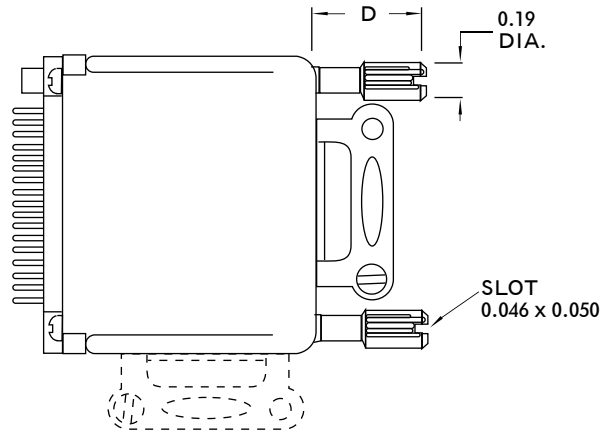
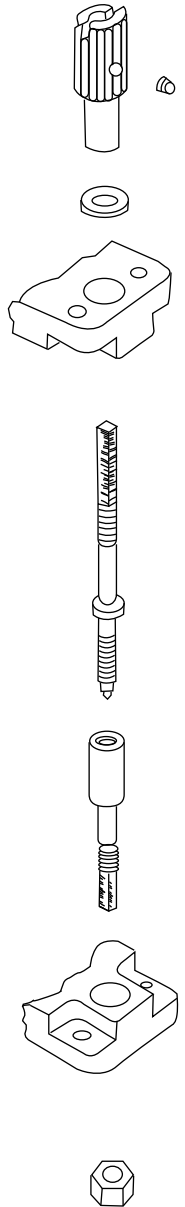


FIG. 3



PART NO.	LOCKING DEVICE (POLARIZED)						FIG. NO.
	WEIGHT		DIMENSIONS				
	ROTATING	NON-ROT	A	B	C	D	
21		.04 oz.	0.19	0.11	0.12	0.56	1
31	.18 oz.						2
32	.18 oz.						3

LOCKING DEVICE:

POSITIVE LOCKING DEVICE HARWARE  
PREVENTS DISENGAGEMENT DURING VIBRATION  
AND SHOCK AND AVOIDS ACCIDENTAL DISCONNECT.

MATERIAL: STAINLESS STEEL  
FINISH: PASSIVATED



## SPECIFICATIONS

Listed below are the general specifications applicable to the illustrated D series rack and panel connectors.

### ELECTRICAL

Current Rating . . . . .	5 Amperes
Solder Pot Accommodation . . . . .	One #20 AWG Wire
Dielectric-Withstanding Voltage	
Contact to Contact Sea Level . . . . .	1500 VRMS Minimum

### MECHANICAL

Contact Diameter . . . . .	0.040
Creepage Between Contacts . . . . .	0.06 Minimum
Air Space Between Contacts . . . . .	0.05 Minimum
Polarization . . . . .	Guide Pins and Contact Arrangement
Guide Pins and Sockets . . . . .	Stainless Steel, Passivated
Female Contacts . . . . .	Spring Temper Grade "A" Phosphor Bronze, or Heat Treated Beryllium Copper. Gold Plated over Copper or Nickel Plate
Male Contacts . . . . .	Brass, Gold Plated over Copper or Nickel Plate
Self Locking Nut . . . . .	Brass, Cadmium Plated, Gold Iridite finish
Hex Nut	
Lockwasher . . . . .	Stainless Steel, Passivated
Insulation Material . . . . .	Standard insulation material for "D" series connectors is Diallyl Phthalate, fiberglass filled, type GDI-30F Choice of other "Mil Approved" Thermosetting
Temperature Range. . . . .	-60°C to +125°C



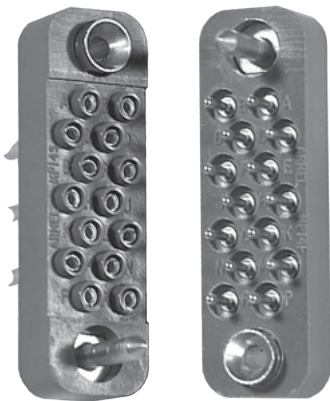
MP6SJV2

MP6PJV2



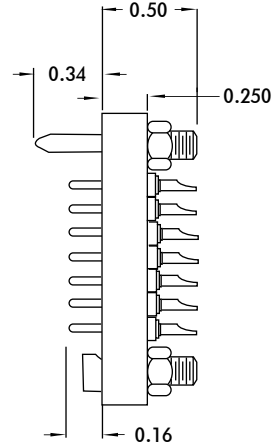
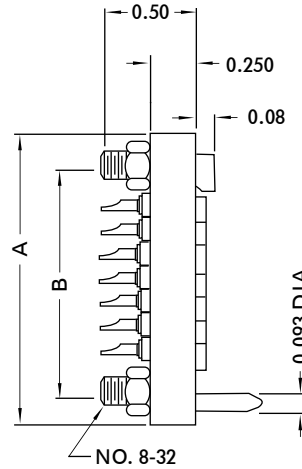
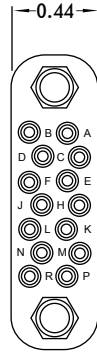
MP10SJV2

MP10PJV2

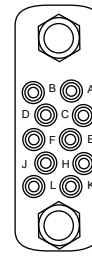


MP14SJV2

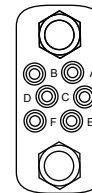
MP14PJV2



MP14S



MP10S



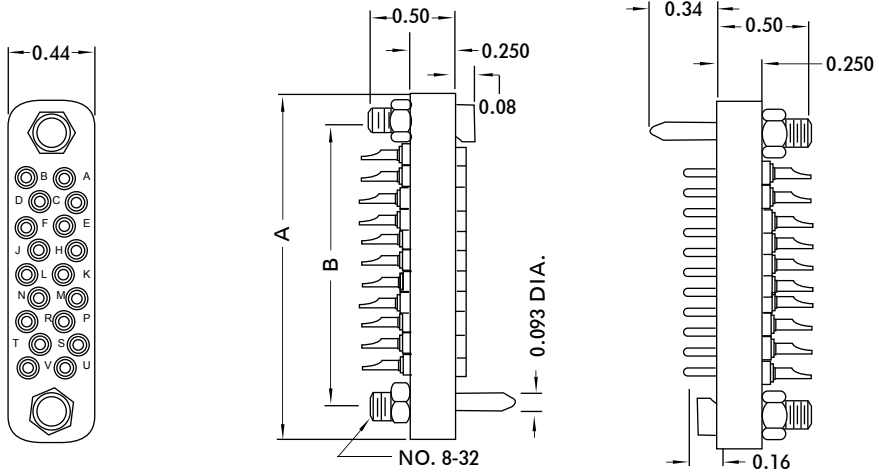
MP6S

TERMINAL IDENTIFICATION  
(VIEWED FROM WIRING END OF  
FEMALE CONNECTOR)

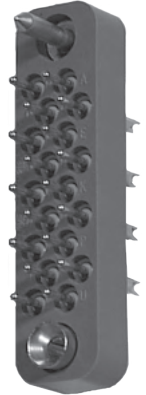
Part No.	Type	No. Of Contacts	Weight	Dimensions	
				A	B
MP6SJV2	RECEPTACLE	6	0.25 oz.	1.00	0.687
MP6PJV2	PLUG		0.27 oz.		
MP10SJV2	RECEPTACLE	10	0.30 oz.	1.25	0.937
MP10PJV2	PLUG		0.32 oz.		
MP14SJV2	RECEPTACLE	14	0.32 oz.	1.50	1.188
MP14PJV2	PLUG		0.40 oz.		

FOR HOODS SEE PAGE 08

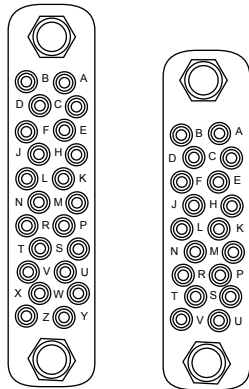
FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 09



MP 18SJV2



MP 18PJV2



MP 22S

MP 18S

TERMINAL IDENTIFICATION  
(VIEWED FROM WIRING END OF  
FEMALE CONNECTOR)



MP 22SJV2



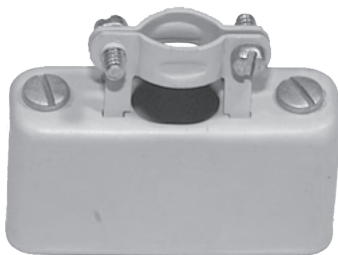
MP 22PJV2

Part No.	Type	No. Of Contacts	Weight	Dimensions	
				A	B
MP18SJV2	RECEPTABLE	18	0.36 oz.	1.75	1.437
MP18PJV2	PLUG		0.46 oz.		
MP22SJV2	RECEPTABLE	22	0.40 oz.	2.00	1.687
MP22PJV2	PLUG		0.52 oz.		

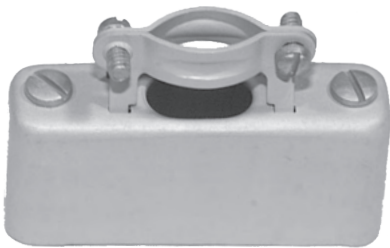
FOR HOODS SEE PAGE 08  
FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 09



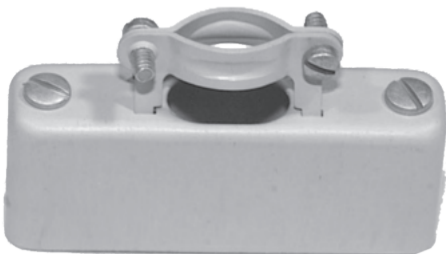
MP10H



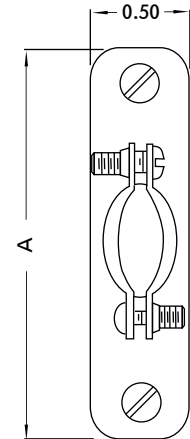
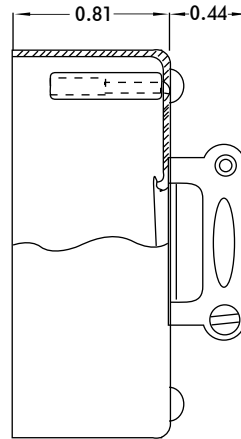
MP14H



MP18H



MP22H



Type	Cable Opening	Weight	Dimensions ?A?
MP10H	0.31 DIA.	0.25 oz.	1.31
MP14H	0.31 x 0.41	0.27 oz.	1.56
MP18H	0.31 x 0.50	0.28 oz.	1.81
MP22H	0.31 x 0.56	0.29 oz.	2.06

NOTE: CONNECTOR AND HOOD ASSEMBLY ORDER AS I.E. M14PH

**HOOD:**

ONE PIECE DRAWN ANODIZED ALUMINUM WITH NO SLITS OR SEAMS TO OPEN OR TEAR, PROVIDING MAXIMUM PROTECTION.

**CABLE CLAMP:**

ANODIZED ALUMINUM WITH FOUR (4) MOUNTING LEGS TO PROVIDE RIGID CABLE SUPPORT.

**MOUNTING:**

MOUNTED BY MEANS OF SPACER NUTS ON EITHER PLUG OR RECEPTACLE.



## SPECIFICATIONS

The "MP" Rack and Panel Type Connectors were designed for use in Aircraft, Communications and instrumentation Work. Their weight and size make them particularly adaptable where space and weight limitations are factors.

### High Current Leads

A leaf spring is provided in each pilot socket for contact, allowing the pilots to be utilized as high current ground leads.

### Extra Creepage

"Bosses" provide extra creepage path.

Listed below are the general specifications applicable to the illustrated series of MP rack and panel connectors.

### ELECTRICAL

Current Rating . . . . .	5 Amperes
Solder Pot Accommodation . . . . .	One #20 AWG Wire
Dielectric-Withstanding Voltage	
Contact to Contact Sea Level . . . . .	1800 VRMS Minimum 450 VRMS Minimum

### MECHANICAL

Contact Diameter . . . . .	0.040
Creepage Between Contacts . . . . .	0.14 Minimum
Air Space Between Contacts . . . . .	0.06 Minimum
Polarization . . . . .	Guide Pins and Contact Arrangement
Male Contacts and Guide Pins . . . . .	Brass, Gold Plated over Copper or Nickel Plate
Female Contacts and Guide Sockets . . . . .	Phosphor Bronze, Grade "A" Spring Tempered, Gold Plated over Copper or Nickel Plate.
Insulation Material . . . . .	Choice of "Mil Approved" Thermosetting Insulations. (See Page 18)
Temperature Range . . . . .	-65°C to +125°C

## SPECIFICATIONS

Listed below are the general specifications applicable to the illustrated series of DP rack and panel connectors.

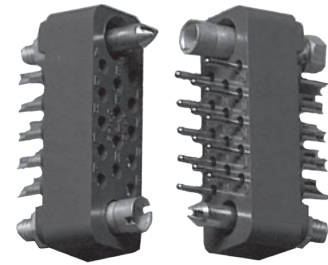
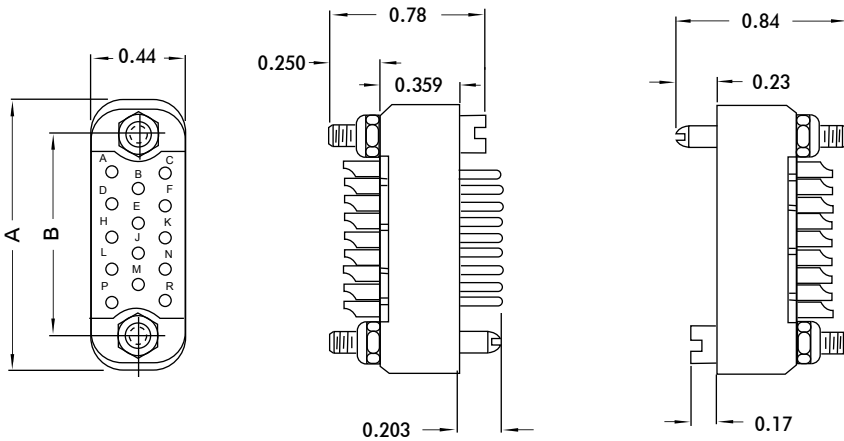
### ELECTRICAL

Current Rating . . . . .	5 Amperes
Solder Pot Accommodation . . . . .	One #20 AWG Wire
Dielectric-Withstanding Voltage Contact to Contact Sea Level . . . . .	2250 VRMS Minimum
Contact to Contact 70,000 Ft . . . . .	500 VRMS Minimum

### MECHANICAL

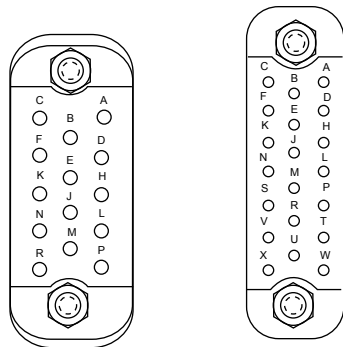
Contact Diameter . . . . .	0.040
Creepage Between Contacts . . . . .	0.17 Minimum
Air Space Between Contacts . . . . .	0.06 Minimum
Polarization . . . . .	Guide Pins and Contact Arrangement
Male Contacts and Guide Pins . . . . .	Brass, Gold Plated over Copper or Nickel Plate.
Female Contacts and Guide Sockets . . . . .	Phosphor Bronze, Grade "A" Spring Tempered, Gold Plated over Copper or Nickel Plate.
Insulation Material . . . . .	Choice of other "Mil Approved" Thermosetting Insulations. (See Page 18)
Temperature Range . . . . .	-65°C to +125°C





DP14SJV2

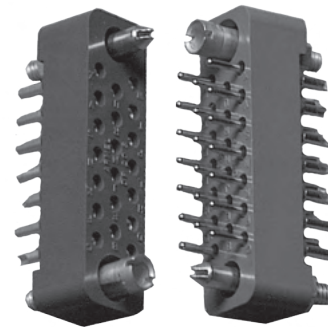
DP14PJV2



DP14S

DP20S

TERMINAL IDENTIFICATION  
(VIEWED FROM WIRING END OF  
FEMALE CONNECTOR)



DP20SJV2

DP20PJV2

Part No.	Type	No. Of Contacts	Weight	Dimensions	
				A	B
DP14SJV2	RECEPTACLE	14	0.32 oz.	1.25	0.937
DP14PJV2	PLUG		0.40 oz.		
DP20SJV2	RECEPTACLE	20	0.36 oz.	1.56	1.250
DP20PJV2	PLUG		0.46 oz.		

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 10

## SPECIFICATIONS

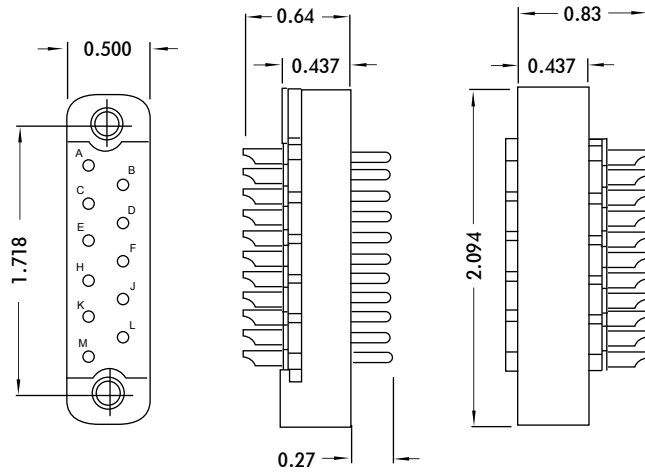
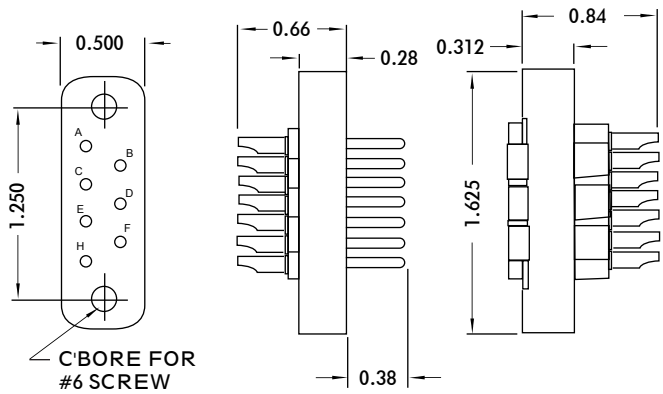
Listed below are the general specifications applicable to the illustrated series of SN rack and panel connectors.

### ELECTRICAL

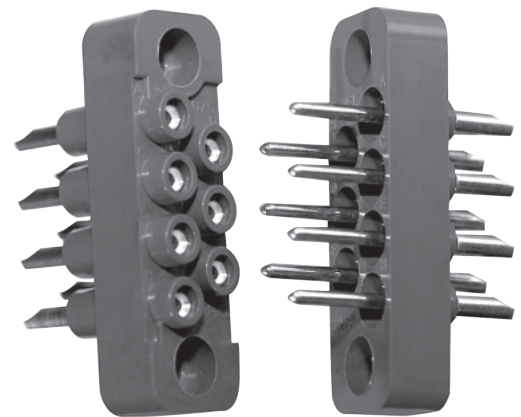
Current Rating . . . . .	10 Amperes
Solder Pot Accommodation . . . . .	One #16 AWG Wire
Dielectric-Withstanding Voltage	
Contact to Contact Sea Level . . . . .	2700 VRMS Minimum 560 VRMS Minimum

### MECHANICAL

Contact Diameter . . . . .	0.062
Creepage Between Contacts . . . . .	0.22 Minimum
Air Space Between Contacts . . . . .	0.09 Minimum
Polarization . . . . .	Guide Pins and Contact Arrangement
Male Contacts and Guide Pins . . . . .	Brass, Gold Plated over Copper or Nickel Plate.
Female Contacts and Guide Sockets . . . . .	Phosphor Bronze, Grade "A" Spring Tempered, Gold Plated over Copper or Nickel Plate.
Insulation Material . . . . .	Choice of other "Mil Approved" Thermosetting Insulations. (See Page 18)
Temperature Range . . . . .	-65°C to +125°C



Part No.	Type	No. Of Contacts	Weight
SN7SJV2	RECEPTACLE	7	0.39 oz.
SN7PJV2	PLUG		0.43 oz.
SN11SJV2	RECEPTACLE	11	0.60 oz.
SN11PJV2	PLUG		0.86 oz.



SN7SJV2

SN7PJV2



SN11SJV2

SN11PJV2

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 12

## SPECIFICATIONS

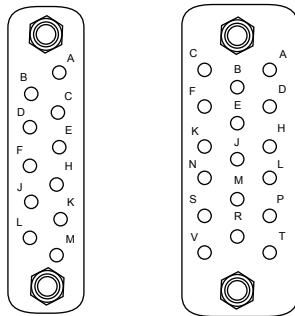
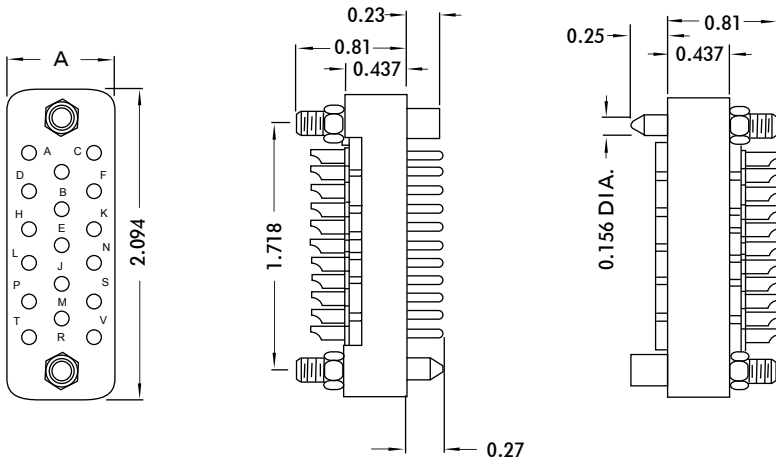
Listed below are the general specifications applicable to the illustrated series of SP rack and panel connectors.

### ELECTRICAL

Current Rating . . . . .	10 Amperes
Solder Pot Accommodation . . . . .	One #16 AWG Wire
Dielectric-Withstanding Voltage	
Contact to Contact Sea Level . . . . .	2700 VRMS Minimum 560 VRMS Minimum

### MECHANICAL

Contact Diameter . . . . .	0.062
Creepage Between Contacts . . . . .	0.25 Minimum
Air Space Between Contacts . . . . .	0.09 Minimum
Polarization . . . . .	Guide Pins and Contact Arrangement
Male Contacts and Guide Pins . . . . .	Brass, Gold Plated over Copper or Nickel Plate.
Female Contacts and Guide Sockets . . . . .	Phosphor Bronze, Grade "A" Spring Tempered, Gold Plated over Copper or Nickel Plate.
Insulation Material . . . . .	Choice of other "Mil Approved" Thermosetting Insulations. (See Page 18)
Temperature Range . . . . .	-65°C to +125°C



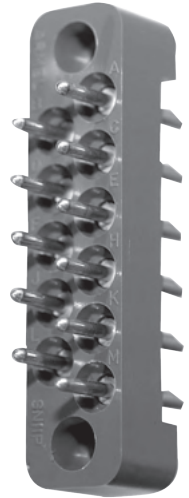
SP11S

SP17S

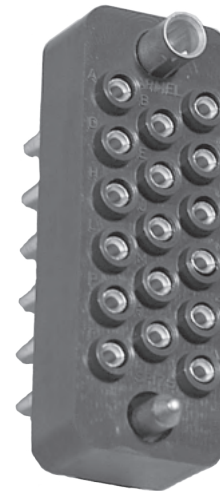
TERMINAL IDENTIFICATION  
(VIEWED FROM WIRING END OF  
FEMALE CONNECTOR)



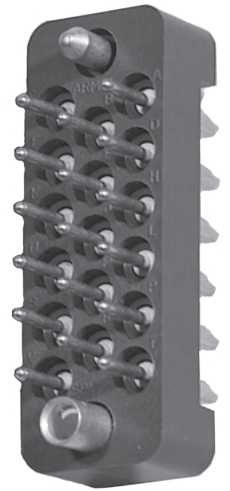
SP11SJV2



SP11PJV2



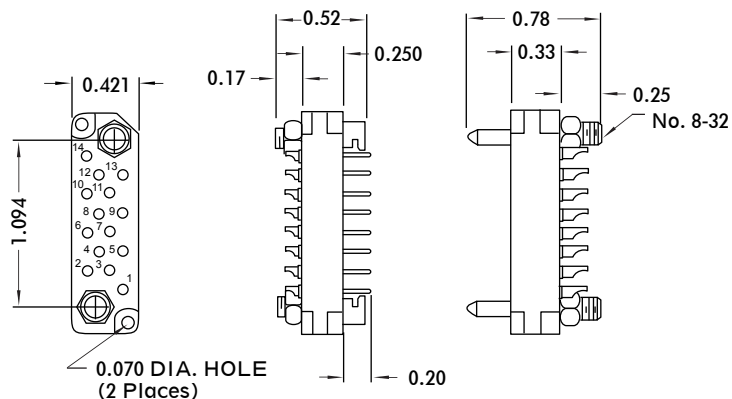
SP17SJV2



SP17PJV2

Part No.	Type	No. Of Contacts	Weight	Dimensions
				A
SP11SJV2	RECEPTACLE	11	0.74 oz.	0.500
SP11PJV2	PLUG		0.99 oz.	
SP17SJV2	RECEPTACLE	17	0.98 oz.	0.750
SP11PJV2	PLUG		1.50 oz.	

FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 14



SMP14SJV2



SMP14PJV2

## SPECIFICATIONS

Listed below are the general specifications applicable to the illustrated SMP type connector.

Part No.	Type	No. Of Contacts	Weight	Current Rating (Amps.)	Surface Creepage (Min.)	Air Space (Min.)	Contact Dia.	Solder Cup Accomodation
SMP 14SJV2	RECEPTABLE	14	0.32 oz.	5	0.08	0.08	0.040	ONE #20 AWG WIRE
SMP 14PJV2	PLUG		0.40 oz.					

### SMP TYPE

#### Dielectric Withstanding Voltage

Contact to Contact, Sea Level. . . . . 1500 VRMS Minimum

Contact to Contact, 70,000 Ft. . . . . 375 VRMS Minimum

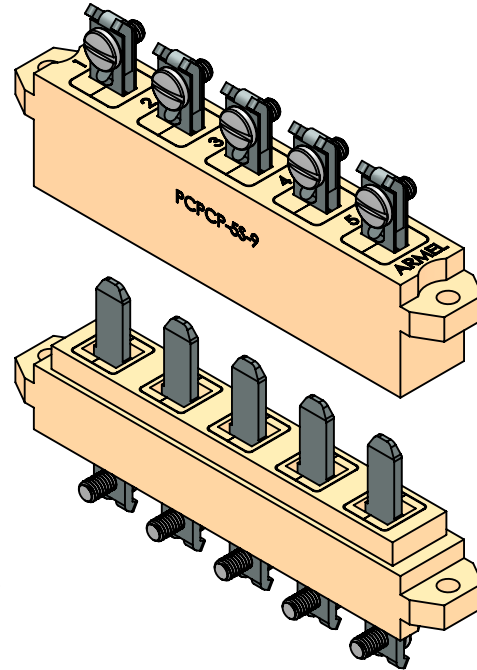
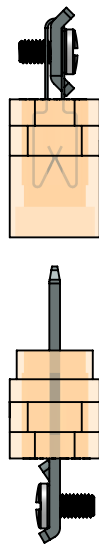
Male Contacts and Guide Pins. . . . . Brass, Gold Plated over Copper or Nickel Plate

Female Contacts and Guide Sockets. . . . . Phosphor Bronze, Gold Plated over Copper or Nickel Plate

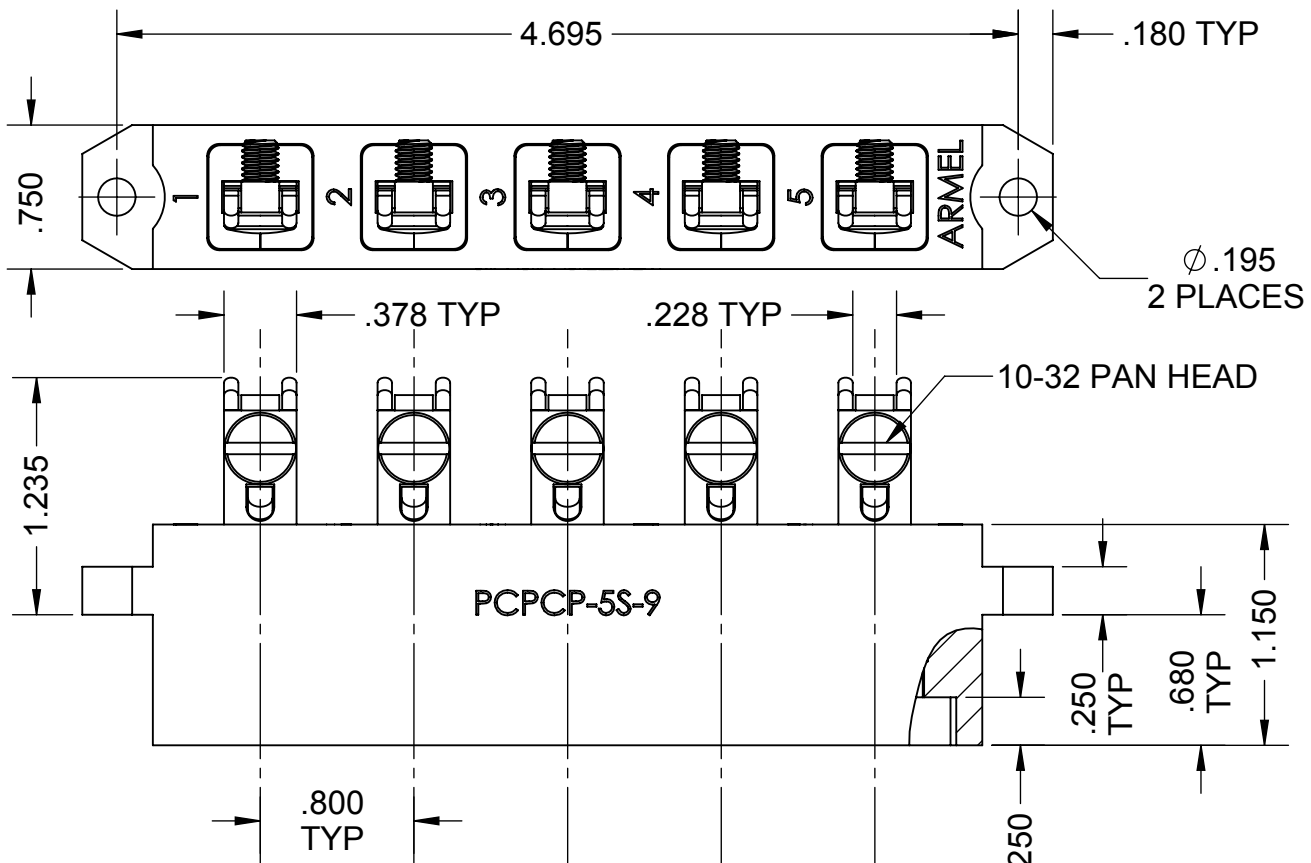


# PCPCP SERIES

**POWER CONNECTORS, WITH SOCKET AND BLADE POSITIONS POPULATED AS 1-2-3, 1-3-5, OR 1-2-3-4 WITH REMAINING POSITION(S) LEFT OUT, OR FULLY POPULATED AS SHOWN BELOW; CONNECTORS MEET SPECIFICATION 645A748**

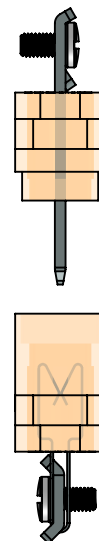
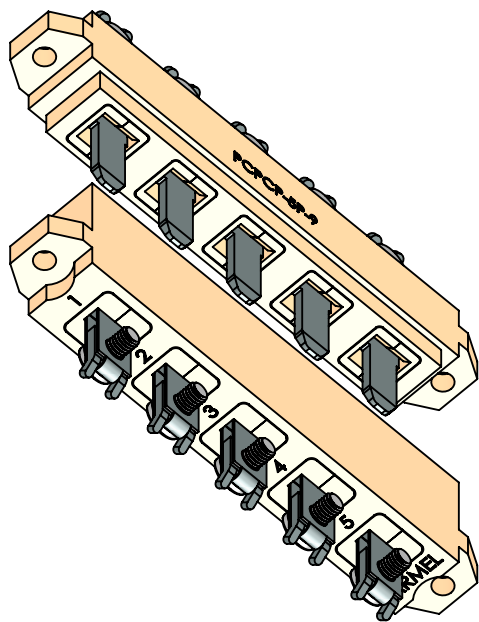


INSULATOR AND INSERTS SHOWN TRANSPARENT IN SIDE VIEW

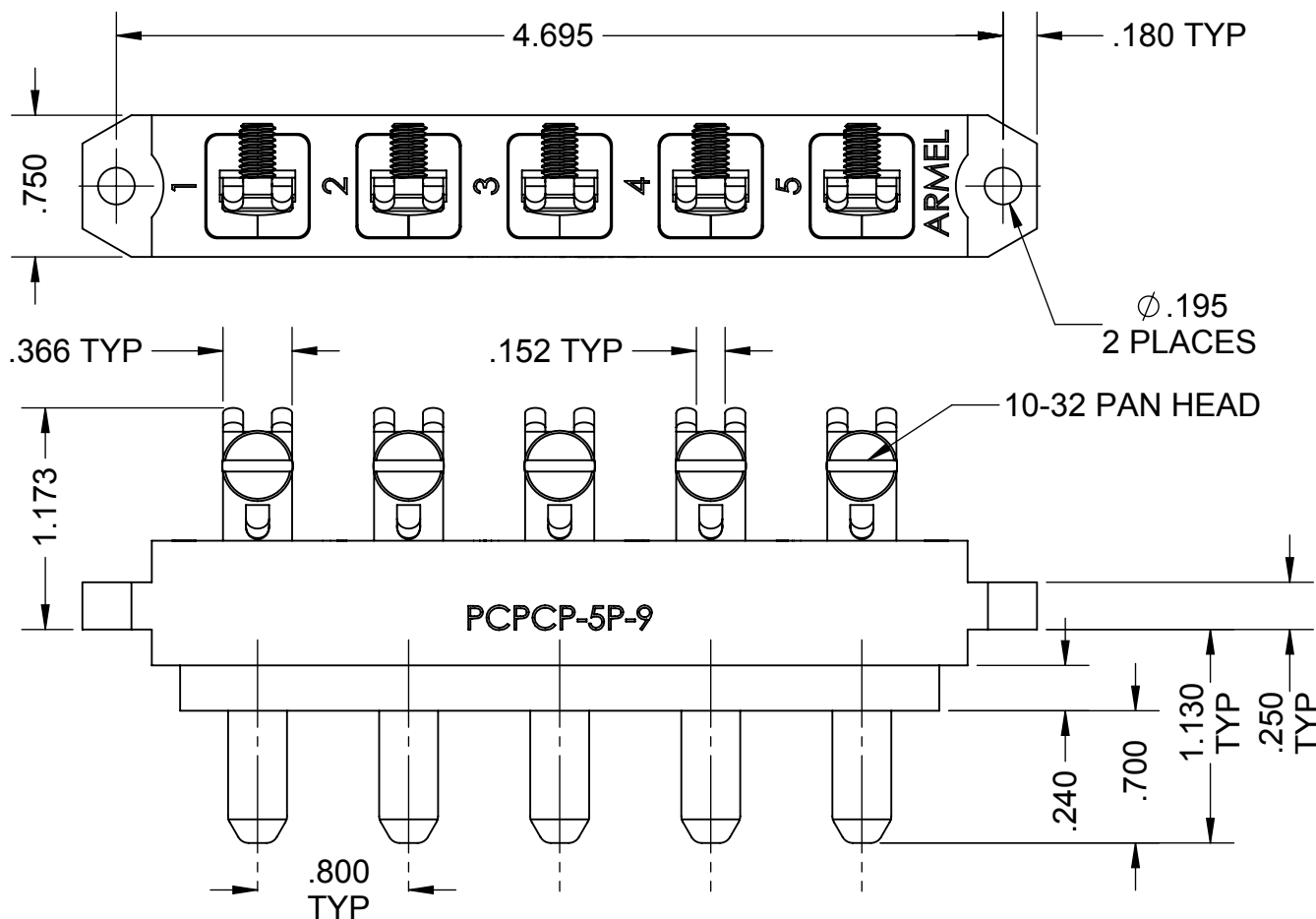


FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE CATALOG PAGE 19

# PCPCP SERIES



INSULATOR AND INSERTS SHOWN TRANSPARENT  
IN SIDE VIEW

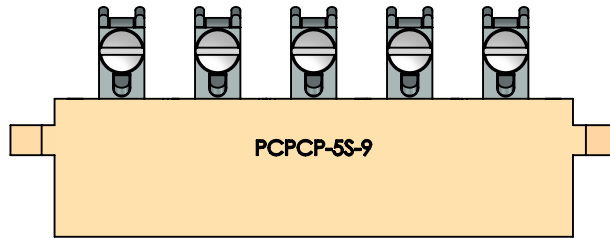
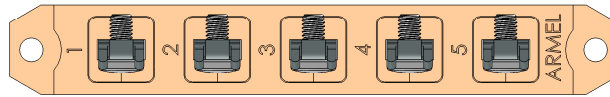


FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE CATALOG PAGE 20





## SOCKET POWER CONNECTOR



## SPECIFICATIONS

### ELECTRICAL

Current Rating.....See Table At Bottom  
 Dielectric Withstanding Voltage.....  
 Contact to Contact  
 Sea Level.....1000 VRMS @ 60 Hz

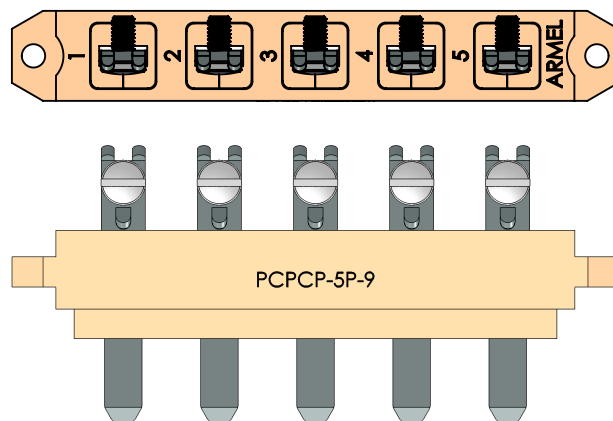
### MECHANICAL

Contact Material & Finish.....Beryllium Copper, C17200, 1/2 Hard Per ASTM B194, Silver Plate.0003 In. Min. Thk., Type 1, Per QQ-S-365, Grade A, Over .0001 In. Min. Thk. Copper Plate Per MIL-C-14550, Class 4.  
 Wire Clamp Screw Material & Finish.....Type 316 Stainless Steel & Passivated  
 Body & Contact Retainer Material.....Ultem 2300, Color: Light Brown  
 Contact Retainer Bonding Material.....Weld-On 3 Acrylic Plastic Cement

PART NO.	CONTACT, INSERTS & CAVITY IN POSITIONS	NO CONTACT, INSERTS, OR CAVITY IN POSITIONS	MAX CONTACT CURRENT @ 250 VOLTS (AMPS)
PCPCP-3S-9	1,2,3	4,5	45
PCPCP-3AS-9	1,3,5	2,4	60
PCPCP-4S-9	1,2,3,4	5	45
PCPCP-5S-9	1,2,3,4,5	- (SHOWN)	60*

\*ENSURE MATING CONNECTOR HAS SAME NUMBER OF CONTACTS AND BLADE CONTACT MATERIAL IS SILVER COPPER FOR 60 AMP USE, OTHERWISE MAX CURRENT IS 45 AMPS, SEE 645A748.

## BLADE POWER CONNECTOR



## SPECIFICATIONS

### ELECTRICAL

Current Rating.....See Table At Bottom  
 Dielectric Withstanding Voltage.....  
 Contact to Contact  
 Sea Level.....1000 VRMS @ 60 Hz

### MECHANICAL

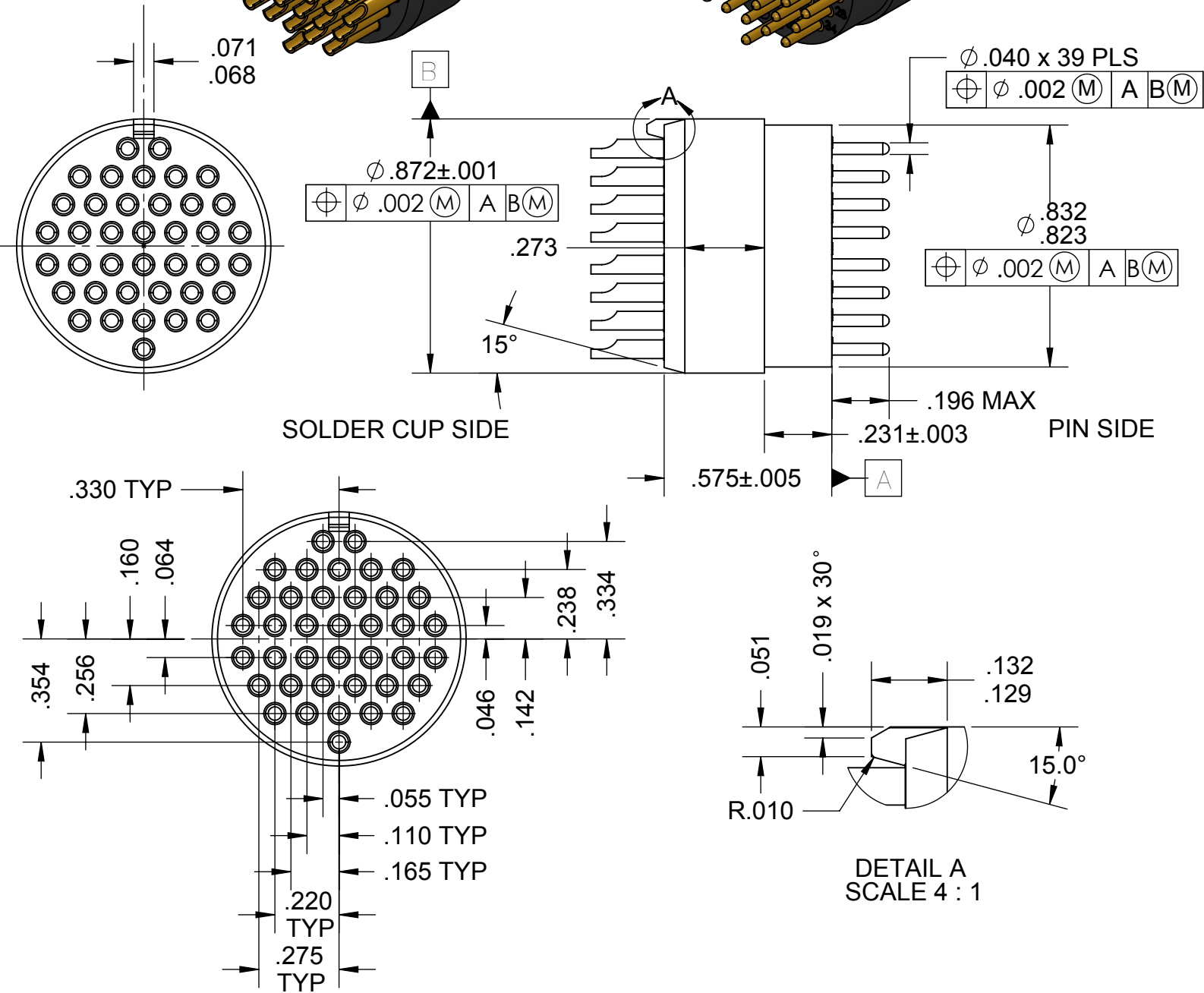
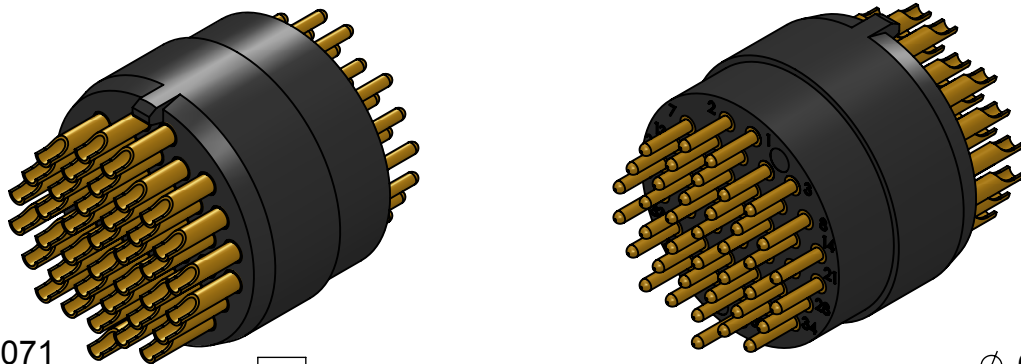
Contact Material & Finish.....Copper #113-#116, Spring Temper, Silver Plate  
 .0003 In. Min. Thk., Type 1, Per QQ-S-365,  
 Grade A, Over .0001 In. Min. Thk. Copper Plate  
 Per MIL-C-14550, Class 4.  
 Wire Clamp Screw Material & Finish.....Type 316 Stainless Steel & Passivated  
 Body & Contact Retainer Material.....Ultem 2300, Color: Light Brown  
 Contact Retainer Bonding Material.....Weld-On 3 Acrylic Plastic Cement

PART NO.	CONTACT, INSERTS & CAVITY IN POSITONS	NO CONTACT, INSERTS, OR CAVITY IN POSITIONS	MAX CONTACT CURRENT @ 250 VOLTS (AMPS)
PCPCP-3P-9	1,2,3	4,5	45
PCPCP-3AP-9	1,3,5	2,4	60
PCPCP-4P-9	1,2,3,4	5	45
PCPCP-5P-9	1,2,3,4,5	-(SHOWN)	60



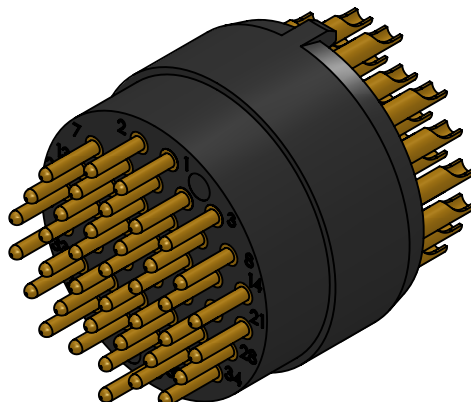
# TR39P1 SERIES

## TORPEDO RECEPTACLE CONNECTOR



FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE CATALOG PAGE 22

## TORPEDO RECEPTACLE CONNECTOR



### SPECIFICATIONS

#### ELECTRICAL

Insulation Resistance.....Greater Than 100 MEGAOHMS @ 750 VDC

#### MECHANICAL

Contact Material & Finish.....#173 Beryllium Copper Alloy Full Hard Per ASTM B 196,  
Hard Gold Plate Per ASTM 0488, Type A, CL 5.0  
Grade C Over Nickel Plate Per AMS-QQ-N-290, Class 2,  
Grade F

Insulator Body Material.....Epoxy Molding Compound IAW ASTM D 5948,  
Type GEI-5, Heat Resistance: 180, Color: Black

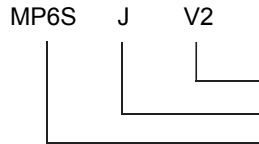
Contact Sealant.....Silane Based Metal Adhesive, CHEMLOK AP-131 (Lord  
Corp)

Test.....Connector Must Withstand 2000 PSIG Pressure For A  
Minimum Of 30 Minutes, No Leakage Permissible



# ORDERING INSTRUCTIONS

## MATERIAL CERTIFICATIONS



SUFFIX 2 CONTACT PLATING  
SUFFIX 1 INSULATION MATERIAL  
SERIES

### SUFFIX 1

- J DIALLYL PHTHALATE, GLASS-FIBER FILLED PER MIL-M-14, TYPE GDI 30F
- L DIALLYL PHTHALATE, GLASS-FIBER FILLED PER MIL-M-14, TYPE SDG-F
- L2 DIALLYL PHTHALATE, GLASS-FIBER FILLED PER MIL-M-14, TYPE SDG-F  
COLOR BLACK
- H DIALLYL PHTHALATE, ORLON-FILLED PER MIL-M-14, TYPE SDI-5

### SUFFIX 2

- V2 GOLD PLATE (0.00005) PER MIL-G-45204, TYPE II, CLASS 1 OVER COPPER PLATE
- T3 GOLD PLATE (0.00005) PER MIL-G-45204, TYPE II, CLASS 1 OVER NICKEL PLATE  
(0.0001) PER QQ-N-290, TYPE VII, CLASS 1 (LOW STRESS NICKEL) OVER  
COPPER PLATE PER MIL-C-14550, CLASS 4  
OTHER PLATINGS AVAILABLE UPON REQUEST

### GENERAL

1. MEET OR EXCEED APPLICABLE REQUIREMENTS OF MIL-C-55302
2. UTILIZE PRECISION MACHINED CONTACTS OF SPRING TEMPER PHOSPHOR  
BRONZE AND/OR HEAT-TREATED BERYLLIUM COPPER.
3. ALL CONTACTS FREE FLOATING AND SECURELY CONTAINED.
4. CONTACTS GOLD PLATED FOR LOW CONTACT RESISTANCE
5. ADAPTABLE FOR AUTOMATION
6. REDUCES POSSIBILITY OF MOISTURE CONTAMINATION

## MATERIAL AND FINISH SPECIFICATIONS

STAINLESS STEEL	QQ-S-763/766 TYPE 303 (NON-MAGNETIC)
COLD ROLL STEEL	QQ-S-640, COMPOSITION CR
BRASS	QQ-B-626
PHOSPHOR BRONZE	QQ-B-750
BERYLLIUM COPPER	QQ-C-533
CADMIUM PLATE	QQ-P-416, TYPE II, CLASS 2
NICKEL PLATE	QQ-N-290, TYPE VII, CLASS 2
PASSIVATE	QQ-P-35 / AMS 2700
HOT TIN DIP	MIL-T-10727, TYPE II

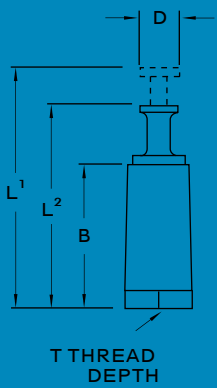
### ARMEL ELECTRONICS, INC.

1601 75TH STREET NORTH BERGEN, NJ 07047

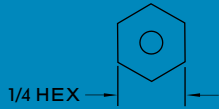
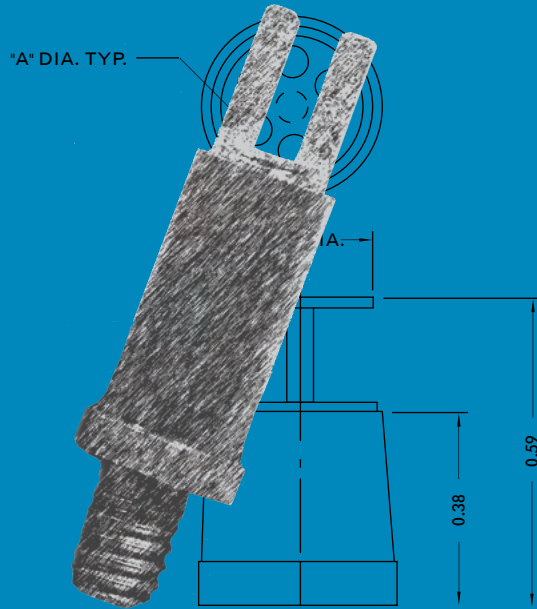
WEBSITE [WWW.ARMELELECTRONICS.COM](http://WWW.ARMELELECTRONICS.COM)

FAX 201-869-4304

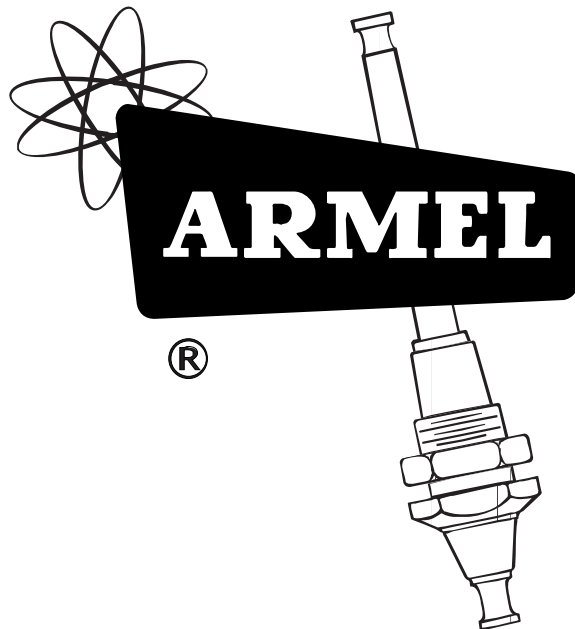
E-MAIL [INFO@ARMELELECTRONICS.COM](mailto:INFO@ARMELELECTRONICS.COM)



PART NO.	"A"	BREAKDOWN VOLTAGE AC
GSTMTC-124	0.062	10,000
	0.070	10,000



# terminals





# TERMINAL INDEX

ARMEL stand-off terminals, both standard size and miniature, meet the most exacting demands of various electrical and electronic applications for tie points, insulators, and wire terminuses.

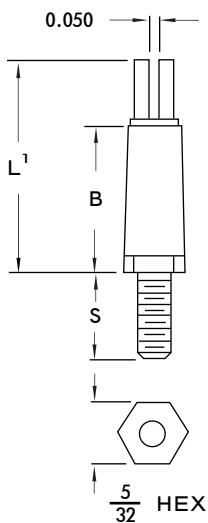
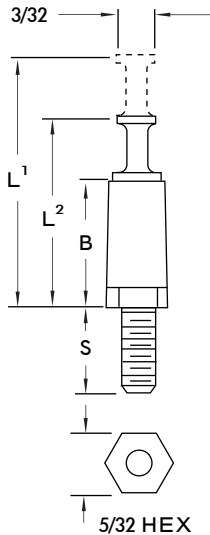
Available with either a PLASTIC or METAL BASE, each terminal is individually inspected to provide our customers with ARMEL quality components.

Solder terminals, mounting studs, insulations, and platings may be varied to meet customer's specifications.

STYLE	PART	PAGE
MINIATURE TYPES	DTS	1
	DTMS	2
	DTR	3
	DTMR	4
	STMTC	2
	DTMSC	3
	DLTMS	4
TURRET TYPES	TT	5
	TMT	6
	TS	7
	TMS	8
	TR	9
	TLR	10
	TMRR	11
	TMR	12
	STT	13
BIFURCATED TYPES	BT	8
	BMT	9
	BS	10
	BMS	11
	BR	12
	BLR	13
	BMR	14
	BMRR	15
THREADED TYPE	SIT	11
	SMT	12
	ITS	13
	ITMS	14
STRAIGHT TYPE	RTT	13
	RTMT	14
FEED-THROUGH TYPE	FT-85	14
	FT-87	15,16
TERMINAL BOARD	TB SERIES	17,18,19
MULTI-FEED TYPE	GSTMTC	20
	GSTMSC	21
	ORDERING INSTRUCTIONS	
	AND MATERIALS SPECIFICATIONS	22



# MINIATURE SERIES



METAL BASE SHOWN

PLASTIC BASE	METAL BASE	DIMENSIONS					BREAKDOWN VOLTS AC	
		THD. SIZE	RIVET DIA.	B	L <sup>1</sup>	L <sup>2</sup>		S
DTS-7		2-56		7/32			7/32	3,500
DTR-7			0.077				3/8	
	DTMS-7	2-56		15/64			25/64	
	DTMR-7		0.077				3/32	
DTS-12		2-56		3/8			7/32	6,000
DTR-12			0.077				17/32	
	DTMS-12	2-56		25/64			7/32	
	DTMR-12		0.077				3/32	
DLTS-7		2-56		7/32	17/32	3/8	7/32	3,500
DLTR-7			0.077				3/32	
	DLTMS-7	2-56		15/64	35/64	25/64	7/32	
	DLTMR-7		0.077				3/32	
DLTS-12		2-56		3/8	11/16	17/32	7/32	6,000
DLTR-12			0.077				3/32	
	DLTMS-12	2-56		25/64	45/64	35/64	7/32	
	DLTMR-12		0.077				3/32	

DBS-7		2-56		7/32	25/64		7/32	3,500
DBR-7			0.077				3/32	
	DBMS-7	2-56		15/64	13/32		7/32	
	DBMR-7		0.077				3/32	
DBS-12		2-56		3/8	35/64		7/32	6,000
DBR-12			0.077				3/32	
	DBMS-12	2-56		25/64	9/16		7/32	
	DBMR-12		0.077				3/32	

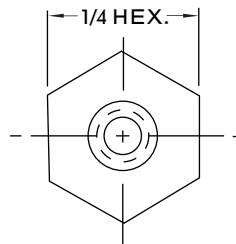
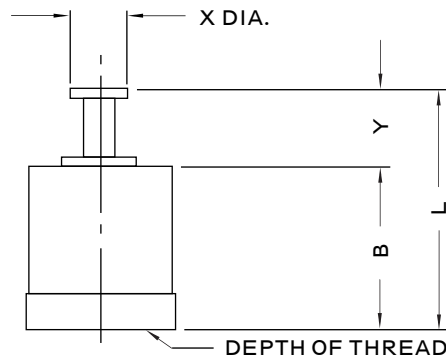
SEE PAGE 22 FOR MATERIAL SPECIFICATIONS AND ORDERING INSTRUCTIONS.



# MINIATURE SERIES



PART NO.	L	B	X	Y	THREAD SIZE	DEPTH OF THD.	BREAKDOWN VOLTAGE A.C.
STMTC-92	0.40	0.275	0.09	0.125	2-56	0.156	11,000
STMTC-124	0.59	0.375	0.14	0.218	4-40	0.156	11,000
STMTC-72	0.40	0.218	0.09	0.181	2-56	0.094	11,000



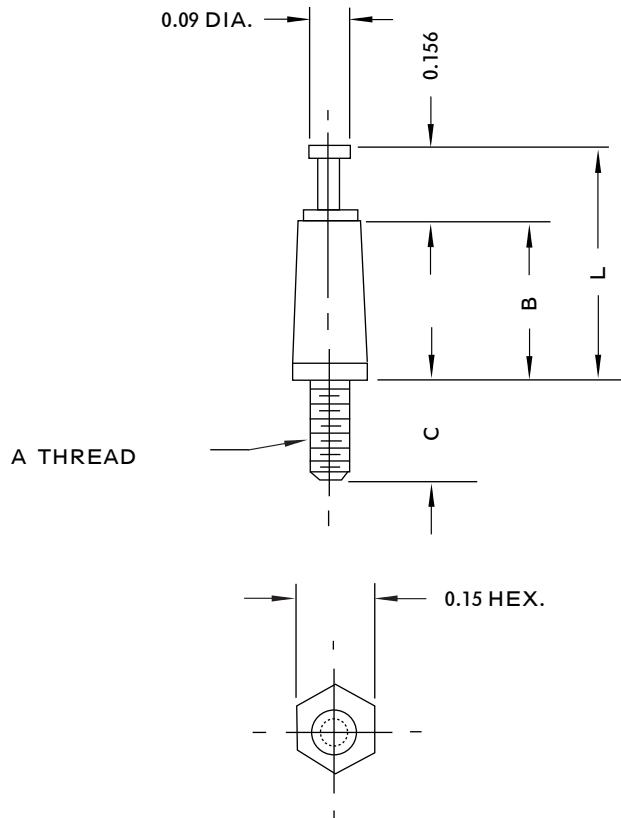
SEE PAGE 22 FOR MATERIAL SPECIFICATIONS AND ORDERING INSTRUCTIONS.



# MINIATURE SERIES

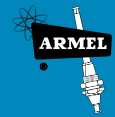


PART NO.	L	B	C	A THREAD	BREAKDOWN VOLTAGE A.C.
DTMSC-727	0.39	0.234	0.218	2-56	10,000
DTMSC-746	0.39	0.234	0.188	4-40	10,000

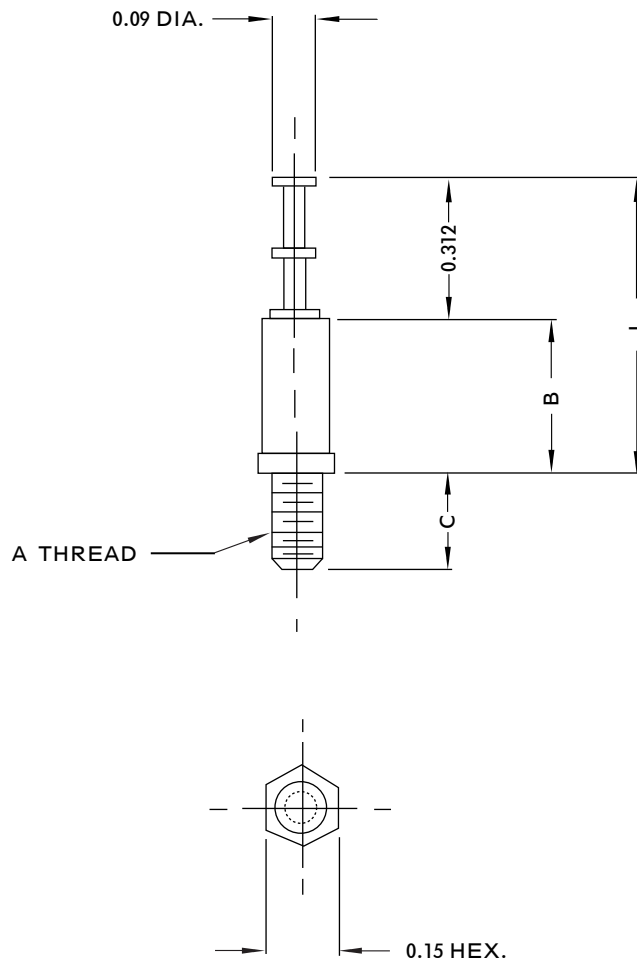


SEE PAGE 22 FOR MATERIAL SPECIFICATIONS AND ORDERING INSTRUCTIONS.

# MINIATURE SERIES



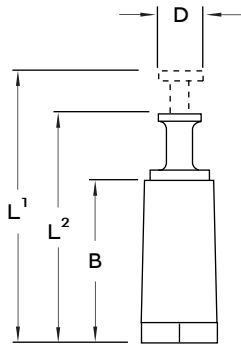
PART NO.	L	B	C	A THREAD	BREAKDOWN VOLTAGE A.C.
DLTMSC-1247	0.70	0.390	0.218	4-40	11,000



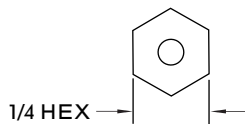
SEE PAGE 22 FOR MATERIAL SPECIFICATIONS AND ORDERING INSTRUCTIONS.



# TURRET SERIES



T THREAD DEPTH



1/4 HEX

METAL BASE SHOWN

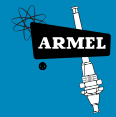
PLASTIC BASE	METAL BASE	THREAD SIZE	DIMENSIONS					BREAKDOWN VOLTS AC	
			B	L <sup>1</sup>	L <sup>2</sup>	D	T		
TT-12	TMT-12	4-40	3/8	23/32	19/32	9/64	5/32	6,000	
TT-12-6	TMT-12-6	6-32							
TT-16	TMT-16	4-40	1/2	27/32	23/32		7/32		9,000
TT-16-6	TMT-16-6	6-32							
TT-17	TMT-17	4-40	17/32	7/8	3/4				
TT-17-6	TMT-17-6	6-32							
TT-19	TMT-19	4-40	19/32	15/16	13/16	12,000			
TT-19-6	TMT-19-6	6-32							

STT-12	STMT-12	4-40	3/8		19/32	9/64	5/32	6,000
STT-12-6	STMT-12-6	6-32						
STT-16	STMT-16	4-40	1/2	23/32	7/32		9,000	
STT-16-6	STMT-16-6	6-32						
STT-17	STMT-17	4-40	17/32	3/4				
STT-17-6	STMT-17-6	6-32						
STT-19	STMT-19	4-40	19/32	13/16	12,000			
STT-19-6	STMT-19-6	6-32						

ATT-12	ATMT-12	4-40	3/8	5/8	17/32	3/32	5/32	6,000	
ATT-12-6	ATMT-12-6	6-32							
ATT-16	ATMT-16	4-40	1/2	3/4	21/32		7/32		9,000
ATT-16-6	ATMT-16-6	6-32							
ATT-17	ATMT-17	4-40	17/32	25/32	11/16				
ATT-17-6	ATMT-17-6	6-32							
ATT-19	ATMT-19	4-40	19/32	27/32	3/4	12,000			
ATT-19-6	ATMT-19-6	6-32							

SEE PAGE 22 FOR MATERIAL SPECIFICATIONS AND ORDERING INSTRUCTIONS.

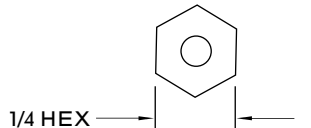
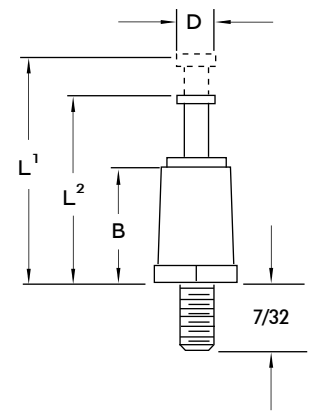
# TURRET SERIES



PLASTIC BASE	METAL BASE	THREAD SIZE	DIMENSIONS				BREAKDOWN VOLTAGE AC
			B	L <sup>1</sup>	L <sup>2</sup>	D	
TS-12		4-40	3/8	23/32	19/32	9/64	6,000
TS-12-6	TMS-12	6-32					
	TMS-12-6						
TS-16		4-40	1/2	27/32	23/32		9,000
TS-16-6	TMS-16	6-32					
	TMS-16-6						
TS-17		4-40	17/32	7/8	3/4	10,000	
TS-17-6	TMS-17	6-32					
	TMS-17-6						
TS-19		4-40	19/32	15/16	13/16	12,000	
TS-19-6	TMS-19	6-32					
	TMS-19-6						

STS-12		4-40	3/8		19/32	9/64	6,000
STS-12-6	STMS-12	6-32					
	STMS-12-6						
STS-16		4-40	1/2	23/32			9,000
STS-16-6	STMS-16	6-32					
	STMS-16-6						
STS-17		4-40	17/32		3/4	10,000	
STS-17-6	STMS-17	6-32					
	STMS-17-6						
STS-19		4-40	19/32		13/16	12,000	
STS-19-6	STMS-19	6-32					
	STMS-19-6						

ATS-12		4-40	3/8	5/8	17/32	3/32	6,000
ATS-12-6	ATMS-12	6-32					
	ATMS-12-6						
ATS-16		4-40	1/2	3/4	21/32		9,000
ATS-16-6	ATMS-16	6-32					
	ATMS-16-6						
ATS-17		4-40	17/32	25/32	11/16	10,000	
ATS-17-6	ATMS-17	6-32					
	ATMS-17-6						
ATS-19		4-40	19/32	27/32	3/4	12,000	
ATS-19-6	ATMS-19	6-32					
	ATMS-19-6						

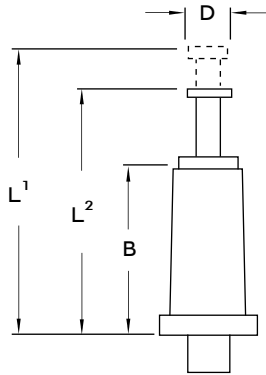


METAL BASE SHOWN

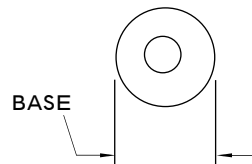
SEE PAGE 22 FOR MATERIAL SPECIFICATIONS AND ORDERING INSTRUCTIONS.



# TURRET SERIES



RIVET SIZE



METAL BASE SHOWN

PLASTIC BASE	METAL BASE	RIVET SIZE		DIMENSIONS					BREAKDOWN VOLTAGE AC						
		Dia.	Length	" B "	" L' "	" L' " "	" D "	Base							
TR-12		0.098	3/32	3/8	23/32	19/32	9/64	1/4Hex.	6,000						
	TMRR-12		11/64					9/32Dia.							
TLR-12		0.125	1/8	1/2	27/32	23/32		1/4Hex.							
	TMR-12		5/16Dia.												
TR-16		0.098	3/32					17/32		7/8	3/4	1/4Hex.	9,000		
	TMRR-16		11/64									9/32Dia.			
TLR-16		0.125	1/8				19/32		15/16			13/16		1/4Hex.	
	TMR-16		5/16Dia.												
TR-17		0.098	3/32	19/32	15/16	13/16								1/4Hex.	10,000
	TMRR-17		11/64											9/32Dia.	
TLR-17		0.125	1/8					19/32		15/16	13/16		1/4Hex.		
	TMR-17		5/16Dia.												
TR-19		0.098	3/32				19/32		15/16			13/16	1/4Hex.	12,000	
	TMRR-19		11/64										9/32Dia.		
TLR-19		0.125	1/8	19/32	15/16	13/16							1/4Hex.		
	TMR-19		5/16Dia.												

STR-12		0.098	3/32	3/8	19/32	9/64	1/4Hex.	6,000								
	STMRR-12		11/64				9/32Dia.									
STLR-12		0.125	1/8	1/2	23/32		9/64	1/4Hex.	9,000							
	STMRR-12		5/16Dia.													
STR-16		0.098	3/32					17/32		3/4	9/64	1/4Hex.	10,000			
	STMRR-16		11/64									9/32Dia.				
STLR-16		0.125	1/8			19/32						13/16		9/64	1/4Hex.	12,000
	STMRR-16		5/16Dia.													
STR-17		0.098	3/32	19/32	13/16		9/64		1/4Hex.						10,000	
	STMRR-17		11/64						9/32Dia.							
STLR-17		0.125	1/8					19/32	13/16	9/64	1/4Hex.		12,000			
	STMRR-17		5/16Dia.													
STR-19		0.098	3/32			19/32					13/16	9/64		1/4Hex.		12,000
	STMRR-19		11/64											9/32Dia.		
STLR-19		0.125	1/8	19/32	13/16		9/64							1/4Hex.	12,000	
	STMRR-19		5/16Dia.													

ATR-12		0.098	3/32	3/8	5/8	17/32	3/32	1/4Hex.	6,000										
	ATMRR-12		11/64					9/32Dia.											
ATLR-12		0.125	1/8	1/2	3/4	21/32		3/32	1/4Hex.	9,000									
	ATMR-12		5/16Dia.																
ATR-16		0.098	3/32						17/32		25/32	11/16	3/32	1/4Hex.	10,000				
	ATMRR-12		11/64											9/32Dia.					
ATLR-16		0.125	1/8				19/32							27/32		3/4	3/32	1/4Hex.	12,000
	ATMR-12		5/16Dia.																
ATR-17		0.098	3/32	19/32	27/32	3/4		3/32		1/4Hex.								12,000	
	ATMRR-17		11/64							9/32Dia.									
ATLR-17		0.125	1/8						19/32	27/32	3/4	3/32	1/4Hex.		12,000				
	ATMR-17		5/16Dia.																
ATR-19		0.098	3/32				19/32						27/32	3/4		3/32	1/4Hex.		12,000
	ATMRR-19		11/64														9/32Dia.		
ATLR-19		0.125	1/8	19/32	27/32	3/4		3/32									1/4Hex.	12,000	
	ATMR-19		5/16Dia.																

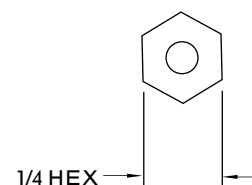
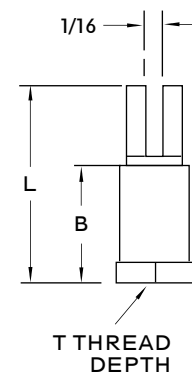
SEE PAGE 22 FOR MATERIAL SPECIFICATIONS AND ORDERING INSTRUCTIONS.

# BIFURCATED SERIES



PLASTIC BASE	METAL BASE	THREAD SIZE	DIMENSIONS			BREAKDOWN VOLTAGE AC
			B	L	T	
BT-12		4-40	3/8	5/8	5/32	6,000
	BMT-12					
BT-12-6		6-32	3/8	5/8	5/32	6,000
	BMT-12-6					
BT-16		4-40	1/2	3/4	7/32	9,000
	BMT-16					
BT-16-6		6-32	1/2	3/4	7/32	9,000
	BMT-16-6					
BT-17		4-40	17/32	25/32	7/32	10,000
	BMT-17					
BT-17-6		6-32	17/32	25/32	7/32	10,000
	BMT-17-6					
BT-19		4-40	19/32	27/32	7/32	12,000
	BMT-19					
BT-19-6		6-32	19/32	27/32	7/32	12,000
	BMT-19-6					

SBT-12		4-40	3/8	9/16	5/32	6,000
	SBMT-12					
SBT-12-6		6-32	3/8	9/16	5/32	6,000
	SBMT-12-6					
SBT-16		4-40	1/2	11/16	7/32	9,000
	SBMT-16					
SBT-16-6		6-32	1/2	11/16	7/32	9,000
	SBMT-16-6					
SBT-17		4-40	17/32	23/32	7/32	10,000
	SBMT-17					
SBT-17-6		6-32	17/32	23/32	7/32	10,000
	SBMT-17-6					
SBT-19		4-40	19/32	25/32	7/32	12,000
	SBMT-19					
SBT-19-6		6-32	19/32	25/32	7/32	12,000
	SBMT-19-6					

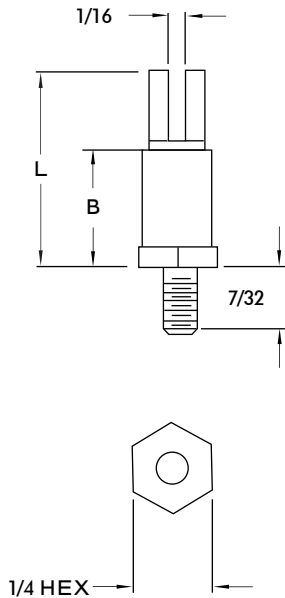


METAL BASE SHOWN

SEE PAGE 22 FOR MATERIAL SPECIFICATIONS AND ORDERING INSTRUCTIONS.



# BIFURCATED SERIES



METAL BASE SHOWN

PLASTIC BASE	METAL BASE	THREAD SIZE	DIMENSIONS		BREAKDOWN VOLTAGE AC
			B	L	
BS-12		4-40	3/8	5/8	6,000
	BMS-12				
BS-12-6		6-32	1/2	3/4	9,000
	BMS-12-6				
BS-16		4-40	17/32	25/32	10,000
	BMS-16				
BS-16-6		6-32	19/32	27/32	12,000
	BMS-16-6				
BS-17		4-40	17/32	25/32	10,000
	BMS-17				
BS-17-6		6-32	19/32	27/32	12,000
	BMS-17-6				
BS-19		4-40	19/32	27/32	12,000
	BMS-19				
BS-19-6		6-32			
	BMS-19-6				

SBS-12		4-40	3/8	9/16	6,000
	SBMS-12				
SBS-12-6		6-32	1/2	11/16	9,000
	SBMS-12-6				
SBS-16		4-40	17/32	23/32	10,000
	SBMS-16				
SBS-16-6		6-32	19/32	25/32	12,000
	SBMS-16-6				
SBS-17		4-40	17/32	23/32	10,000
	SBMS-17				
SBS-17-6		6-32	19/32	25/32	12,000
	SBMS-17-6				
SBS-19		4-40	19/32	25/32	12,000
	SBMS-19				
SBS-19-6		6-32			
	SBMS-19-6				

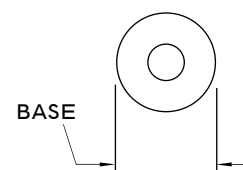
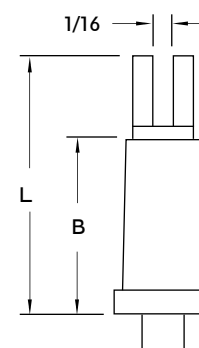
SEE PAGE 22 FOR MATERIAL SPECIFICATIONS AND ORDERING INSTRUCTIONS.



# BIFURCATED SERIES

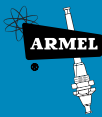


PLASTIC BASE	METAL BASE	RIVET SIZE		DIMENSIONS			BREAKDOWN VOLTAGE AC
		Dia.	Length	B	L	BASE	
BR-12		0.098	3/32	3/8	5/8	1/4Hex.	6,000
	BMRR-12						
BLR-12		0.125	11/64			1/4Hex.	
	BMR-12				5/16Dia.		
BR-16		0.098	3/32	1/2	3/4	1/4Hex.	9,000
	BMRR-16						
BLR-16		0.125	11/64			1/4Hex.	
	BMR-16				5/16Dia.		
BR-17		0.098	3/32	17/32	25/32	1/4Hex.	10,000
	BMRR-17						
BLR-17		0.125	11/64			1/4Hex.	
	BMR-17				5/16Dia.		
BR-19		0.098	3/32	19/32	27/32	1/4Hex.	12,000
	BMRR-19						
BLR-19		0.125	11/64			1/4Hex.	
	BMR-19				5/16Dia.		
SBR-12		0.098	3/32	3/8	9/16	1/4Hex.	6,000
	SBMRR-12						
SBLR-12		0.125	11/64			1/4Hex.	
	SBMR-12				5/16Dia.		
SBR-16		0.098	3/32	1/2	11/16	1/4Hex.	9,000
	SBMRR-16						
SBLR-16		0.125	11/64			1/4Hex.	
	SBMR-16				5/16Dia.		
SBR-17		0.098	3/32	17/32	23/32	1/4Hex.	10,000
	SBMRR-17						
SBLR-17		0.125	11/64			1/4Hex.	
	SBMR-17				5/16Dia.		
SBR-19		0.098	3/32	19/32	25/32	1/4Hex.	12,000
	SBMRR-19						
SBLR-19		0.125	11/64			1/4Hex.	
	SBMR-19				5/16Dia.		

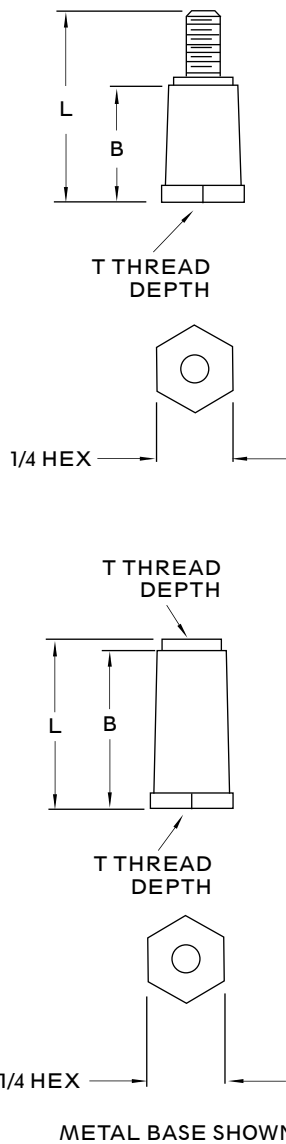


METAL BASE SHOWN

SEE PAGE 22 FOR MATERIAL SPECIFICATIONS AND ORDERING INSTRUCTIONS.



# THREADED SERIES



PLASTIC BASE	METAL BASE	THREAD SIZE	DIMENSIONS			BREAKDOWN VOLTAGE AC
			B	L	T	
SIT-12		4-40	3/8	5/8	5/32	6,000
	SMT-12					
SIT-12-6		6-32	1/2	3/4	7/32	9,000
	SMT-12-6					
SIT-16		4-40	17/32	25/32	7/32	10,000
	SMT-16					
SIT-16-6		6-32	19/32	27/32	5/32	12,000
	SMT-16-6					
SIT-17		4-40	19/32	27/32	5/32	12,000
	SMT-17					
SIT-17-6		6-32				
	SMT-17-6					
SIT-19		4-40				
	SMT-19					
SIT-19-6		6-32				
	SMT-19-6					

PT-16		4-40	1/2	17/32	5/32	9,000
	PMT-16					
PT-16-6		6-32	17/32	9/16	5/32	10,000
	PMT-16-6					
PT-17		4-40	19/32	5/8	5/32	12,000
	PMT-17					
PT-17-6		6-32				
	PMT-17-6					
PT-19		4-40				
	PMT-19					
PT-19-6		6-32				
	PMT-19-6					

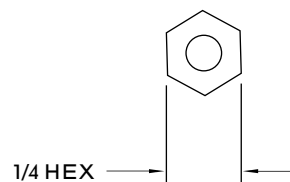
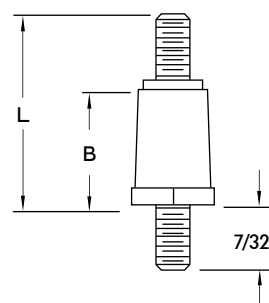
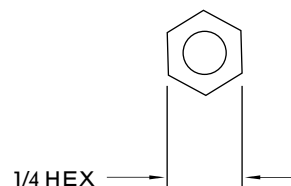
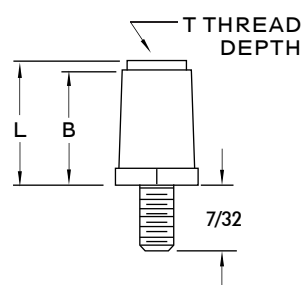
SEE PAGE 22 FOR MATERIAL SPECIFICATIONS AND ORDERING INSTRUCTIONS.

# THREADED SERIES



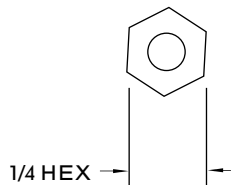
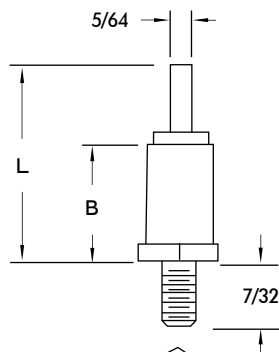
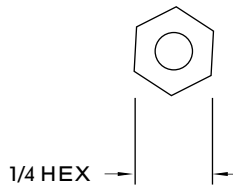
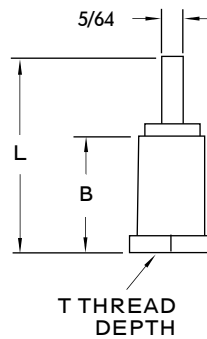
PLASTIC BASE	METAL BASE	THREAD SIZE	DIMENSIONS			BREAKDOWN VOLTAGE AC
			B	L	T	
ITS-12		4-40	3/8	13/32	5/32	6,000
	ITMS-12					
ITS-12-6		6-32				
	ITMS-12-6					
ITS-16		4-40	1/2	17/32	5/32	9,000
	ITMS-16					
ITS-16-6		6-32				
	ITMS-16-6					
ITS-17		4-40	17/32	9/16	5/32	10,000
	ITMS-17					
ITS-17-6		6-32				
	ITMS-17-6					
ITS-19		4-40	19/32	5/8	5/32	12,000
	ITMS-19					
ITS-19-6		6-32				
	ITMS-19-6					

SS-12		4-40	3/8	5/8	5/32	6,000
	SMS-12					
SS-12-6		6-32				
	SMS-12-6					
SS-16		4-40	1/2	3/4	5/32	9,000
	SMS-16					
SS-16-6		6-32				
	SMS-16-6					
SS-17		4-40	17/32	25/32	5/32	10,000
	SMS-17					
SS-17-6		6-32				
	SMS-17-6					
SS-19		4-40	19/32	27/32	5/32	12,000
	SMS-19					
SS-19-6		6-32				
	SMS-19-6					



METAL BASE SHOWN

SEE PAGE 22 FOR MATERIAL SPECIFICATIONS AND ORDERING INSTRUCTIONS.



METAL BASE SHOWN

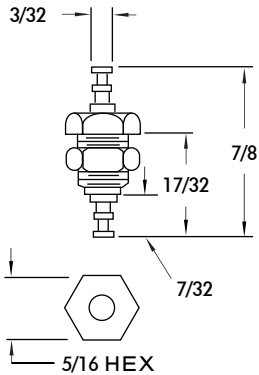
PLASTIC BASE	METAL BASE	THREAD SIZE	DIMENSIONS			BREAKDOWN VOLTAGE AC
			B	L	T	
RTT-12		4-40	3/8	5/8	5/32	6,000
	RTMT-12					
RTT-12-6		6-32	1/2	3/4	7/32	9,000
	RTMT-12-6					
RTT-16		4-40	17/32	25/32	7/32	10,000
	RTMT-16					
RTT-16-6		6-32	19/32	27/32	7/32	12,000
	RTMT-16-6					
RTT-17		4-40	19/32	27/32	7/32	12,000
	RTMT-17					
RTT-17-6		6-32	19/32	27/32	7/32	12,000
	RTMT-17-6					
RTT-19		4-40	19/32	27/32	7/32	12,000
	RTMT-19					
RTT-19-6		6-32	19/32	27/32	7/32	12,000
	RTMT-19-6					

RTS-12		4-40	3/8	5/8	5/32	6,000
	RTMS-12					
RTS-12-6		6-32	1/2	3/4	7/32	9,000
	RTMS-12-6					
RTS-16		4-40	17/32	25/32	7/32	10,000
	RTMS-16					
RTS-16-6		6-32	19/32	27/32	7/32	12,000
	RTMS-16-6					
RTS-17		4-40	19/32	27/32	7/32	12,000
	RTMS-17					
RTS-17-6		6-32	19/32	27/32	7/32	12,000
	RTMS-17-6					
RTS-19		4-40	19/32	27/32	7/32	12,000
	RTMS-19					
RTS-19-6		6-32	19/32	27/32	7/32	12,000
	RTMS-19-6					

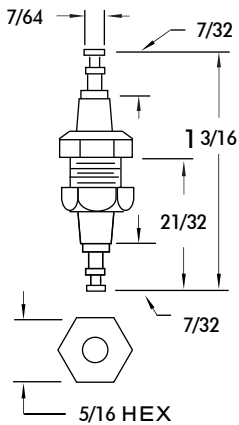
SEE PAGE 22 FOR MATERIAL SPECIFICATIONS AND ORDERING INSTRUCTIONS.



TYPE FT-85



TYPE FT-86



The FT- 85 is a Miniature Type Feed Through Terminal used for passing currents through panels and chassis. The feed through pin is MOLDED into place providing a solid tie point. The molded thread allows for maximum creepage.

## SPECIFICATIONS

### ELECTRICAL

Wire Size Maximum. . . . . Two #20 AWG or  
Three #22 AWG  
Voltage Breakdown. . . . . 4500 VRMS

### MECHANICAL

Solder Terminal. . . . . Brass-Hot Solder Dipped, Centriuged & Reflowed  
Mounting Nut. . . . . Brass-Cadmium Plated with Gold Iridite Finish  
Insulation Material. . . . . Choice of "MIL Approved" Thermosetting Insulations (see page 22)

The FT-86 Feed Through Terminal used for passing currents through panels, chassis and bulkheads was designed for Communication, Aircraft and Instrumentation Work. The Feed Through Pin is MOLDED into place providing a solid tie point. The threaded bushing protects the insulation from breakage in mounting.

## SPECIFICATIONS

### ELECTRICAL

Wire Size Maximum. . . . . Two #20 AWG or  
Three #22 AWG  
Voltage Breakdown. . . . . 3300 VRMS Minimum

### MECHANICAL

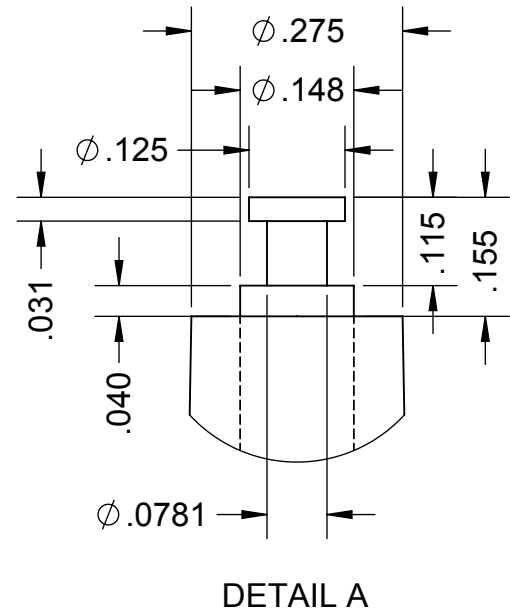
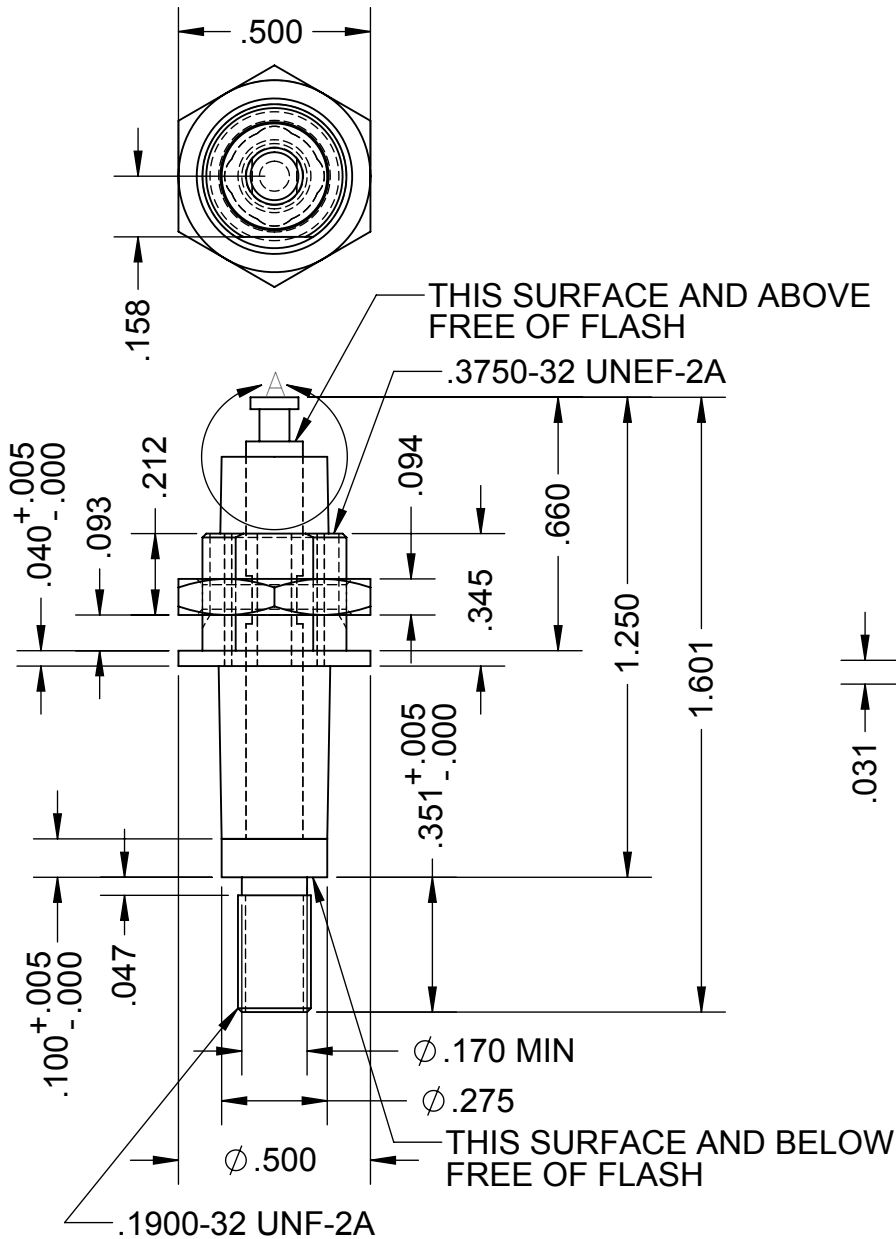
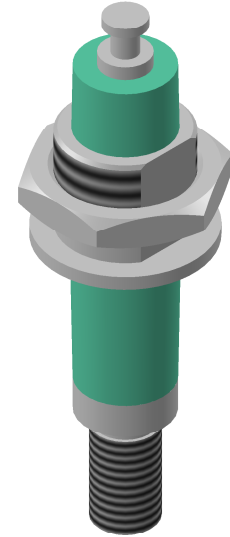
Solder Terminal. . . . . Brass-Hot Solder Dipped, Centriuged & Reflowed  
Mounting Bushing and Nut. . . . . Brass-Cadmium Plated with Gold Iridite Finish  
Insulation Material. . . . . Choice of "MIL Approved" Thermosetting Insulations (see page 22)

SEE PAGE 22 FOR MATERIAL SPECIFICATIONS AND ORDERING INSTRUCTIONS.



# FEED THROUGH SERIES

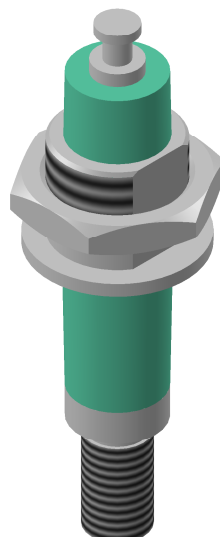
## FT-87 MEETS SPECIFICATION 201610001-10 WITH INSULATION MATERIAL "L" (SEE PAGE 22)



FOR MECHANICAL AND ELECTRICAL SPECIFICATIONS SEE PAGE 16



## FT-87



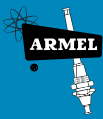
### SPECIFICATIONS

#### ELECTRICAL

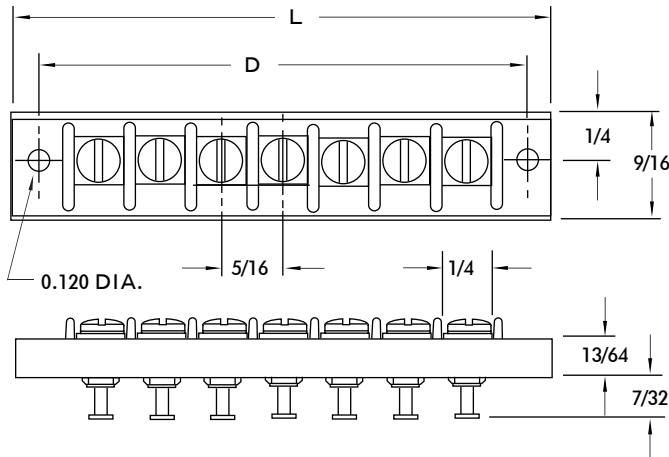
Current Rating.....20 AMP MAX @ 28 VDC  
Dielectric Strength.....3000 VAC @ 60 Hz

#### MECHANICAL

Terminal Material & Finish.....Brass, 1/2 Hard Per ASTM B36, Electro Tin Plate  
.0003 In. Min. Thk. Per ASTM B545 Over .0001 In.  
Min. Thk. Copper Plate Per SAE AMS2418  
Insulation Material.....Per ASTM D5948, Type SDG-F, Color: Light Green  
Mounting Bushing & Nut Material & Finish.....Brass, 1/2 Hard Per ASTM B36, Cadmium Plate  
Per SAE AMS-QQ-P-416, Type I, Class 2  
Shock.....450 G @ 18 Hz  
Torque.....15 In-Lbf Applied To Center Terminal  
Alternate Insulation Material Available.....Choice of "L" Color: Light Green,  
"L2" Color: Black, Or "J" Color: Dark Green  
Comparable Thermosetting Insulations (see page 22)



# TERMINAL BOARDS



		NUMBER OF TERMINALS						
		1	2	3	4	5	6	7
L	7/8	1 3/16	1 1/2	1 13/16	2 1/8	2 7/16	2 3/4	
D	5/8	15/16	1 1/4	1 9/16	1 7/8	2 3/16	2 1/2	

## SPECIFICATIONS

### ELECTRICAL

#### Wire Size

Solder Pot Type. . . . .	One #14 AWG
Turret Type. . . . .	Two #14 AWG or Three #18 AWG
Bifurcated Type. . . . .	Two #14 AWG or Three #18 AWG
Taper Type. . . . .	One "AMP" Taper Pin
Voltage Breakdown. . . . .	3500 VRMS

### MECHANICAL

Creepage Between Contacts. . . . .	.5/32"
Air Space Between Contacts. . . . .	1/8"
Terminals. . . . .	Brass-Gold Plated over Copper Plate
Insulation Material . . . . .	Choice of "MIL APPROVED" Thermosetting Insulations. (see page 22)
Weight (TBT-7). . . . .	.0.60 Oz.

TERMINAL TYPES	
<b>"TBT"</b>  TURRET TYPE	<b>"TBTT"</b>  TURRET TYPE
<b>"TBC"</b>  SOLDER POT TYPE	<b>"TBCC"</b>  SOLDER POT TYPE
<b>"TBB"</b>  BIFURCATED TYPE	<b>"TBAA"</b>  TAPER TYPE
<b>"TBA"</b>  TAPER TYPE	TYPES MAY BE VARIED TO MEET CUSTOMER'S SPECIFICATIONS

### ORDERING INSTRUCTIONS

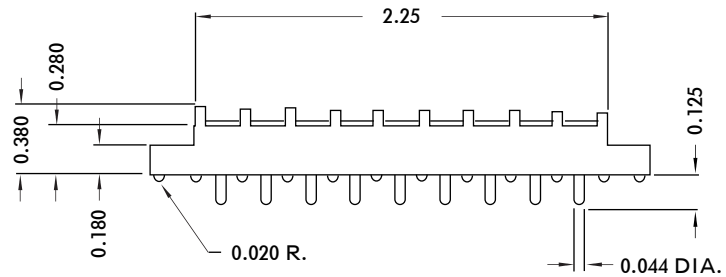
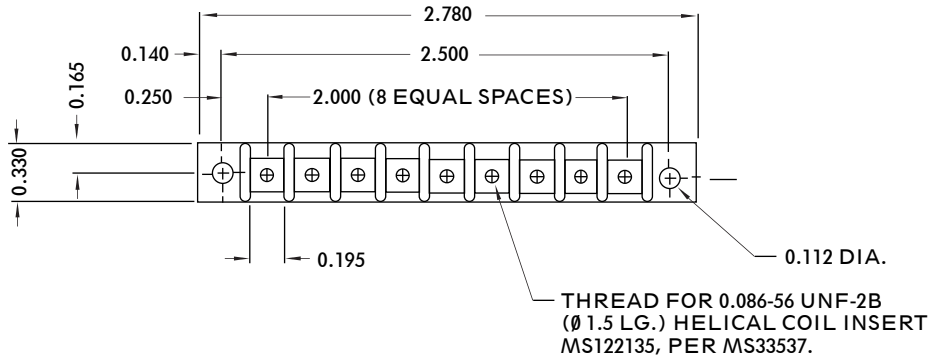
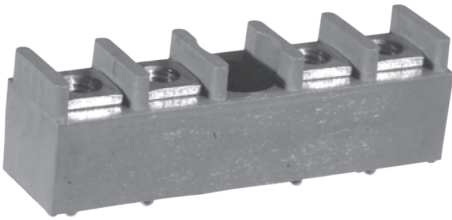
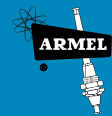
Order type designation as shown above adding -1, -2, -3, etc. for number of terminals required, i.e.

TBT-7	TBTT-6
TBC-3	TBAA-5

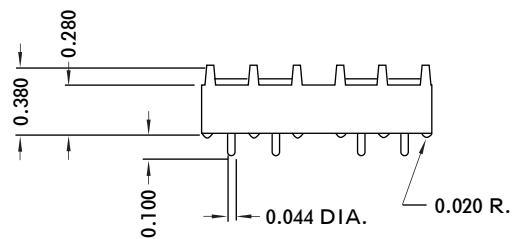
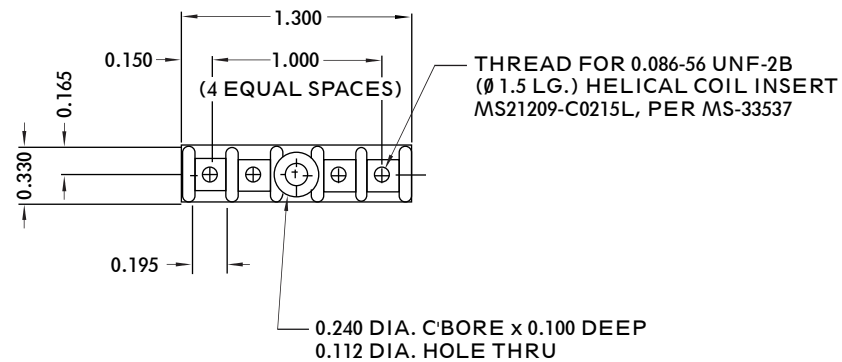
SEE PAGE 22 FOR MATERIAL SPECIFICATIONS AND ORDERING INSTRUCTIONS.



# TERMINAL BOARDS



TBST-9 JNF

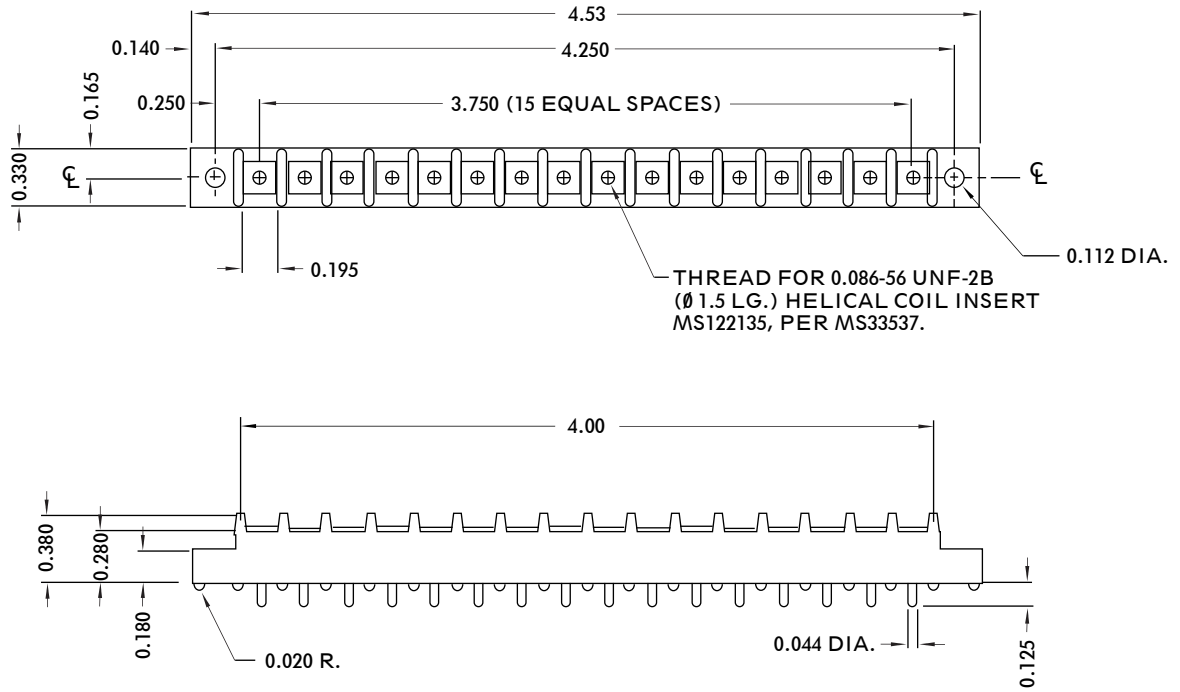
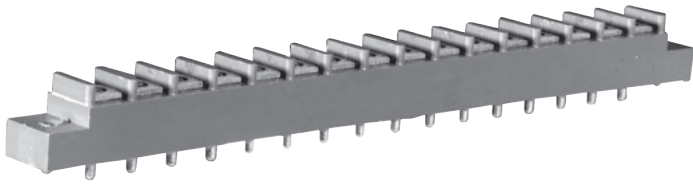


TBSS-4 JNF

SEE PAGE 22 FOR MATERIAL SPECIFICATIONS AND ORDERING INSTRUCTIONS.



# TERMINAL BOARDS



TBST-16 JNF

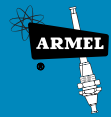
SEE PAGE 22 FOR MATERIAL SPECIFICATIONS AND ORDERING INSTRUCTIONS.

Questions? Contact Armel Electronics at: 1.800.840.0666

terminals

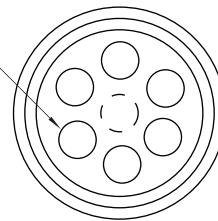
19

# MULTI-FEED SERIES

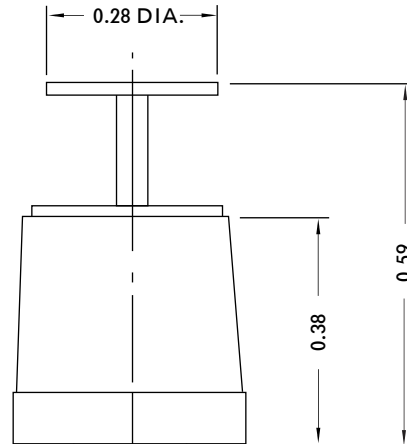


PART NO.	"A"	BREAKDOWN VOLTAGE AC
GSTMTC-124	0.062	10,000
GSTMTC-127	0.070	10,000

"A" DIA. TYP.

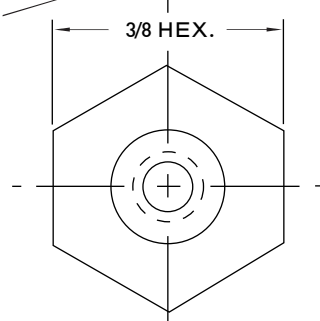


0.28 DIA.

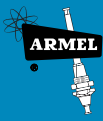


NO. 4-40 THREAD  
X 5/32 DEEP

3/8 HEX.



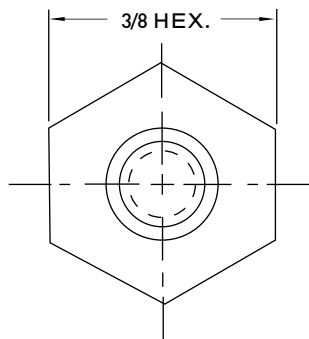
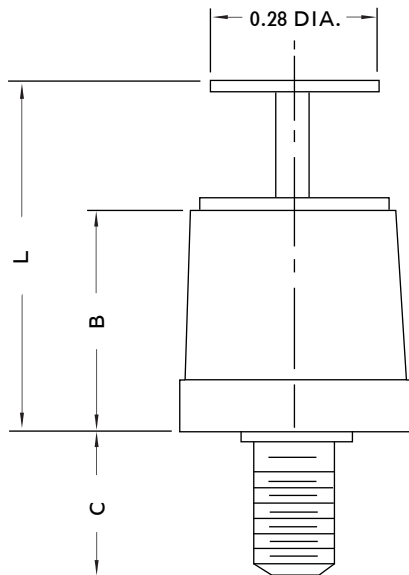
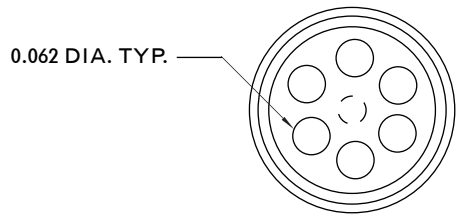
SEE PAGE 22 FOR MATERIAL SPECIFICATIONS AND ORDERING INSTRUCTIONS.



# MULTI-FEED SERIES



PART NO.	L	B	THREAD SIZE	C	BREAKDOWN VOLTAGE A.C.
GSTMSC-126	0.59	0.38	6-32	0.22	11,000
GSTMSC-126-3	0.59	0.38	6-32	0.37	11,000

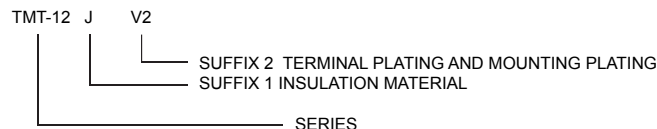


SEE PAGE 22 FOR MATERIAL SPECIFICATIONS AND ORDERING INSTRUCTIONS.

# ORDERING INSTRUCTIONS



## MATERIAL CERTIFICATIONS



### SUFFIX 1

- J DIALLYL PHTHALATE, GLASS-FIBER FILLED PER MIL-M-14, TYPE GDI 30F
- L DIALLYL PHTHALATE, GLASS-FIBER FILLED PER MIL-M-14, TYPE SDG-F
- L2 DIALLYL PHTHALATE, GLASS-FIBER FILLED PER MIL-M-14, TYPE SDG-F  
COLOR BLACK
- H DIALLYL PHTHALATE, ORLON-FILLED PER MIL-M-14, TYPE SDI-5

### SUFFIX 2

- NONE NO SUPPLEMENTARY CONTACT TERMINAL FINISH, OR  
HOT SOLDER DIP, CENTRIFUGED AND REFLOWED, SOLDER PER QQ-S-571  
(STANDARD NO SUFFIX REQUIRED)
- F SOLDER (60-40) WITH WATER SOLUBLE ROSIN FLUX

- V2 GOLD PLATE (0.00005) PER MIL-G-45204, TYPE II, CLASS 1 OVER COPPER  
PLATE

OTHER PLATINGS AVAILABLE UPON REQUEST

### GENERAL

1. MEET OR EXCEED APPLICABLE REQUIREMENTS OF MIL-T-55155
2. CONTACTS GOLD PLATED FOR LOW CONTACT RESISTANCE

## MATERIAL AND FINISH SPECIFICATIONS

STAINLESS STEEL	QQ-S-763/766 TYPE 303 (NON-MAGNETIC)
BRASS	QQ-B-626
CADMIUM PLATE	QQ-P-416, TYPE II, CLASS 2
NICKEL PLATE	QQ-N-290, TYPE VI, CLASS 1
PASSIVATE	QQ-P-35 / AMS 2700

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