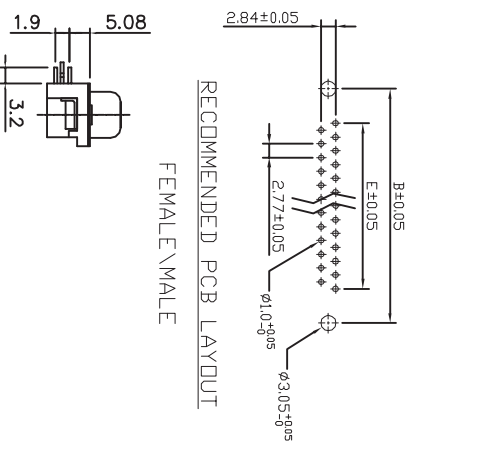
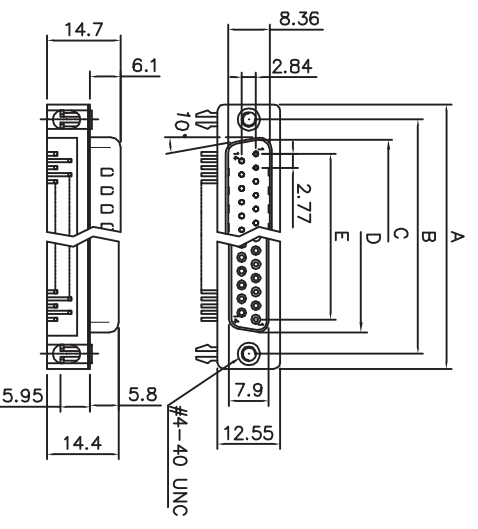


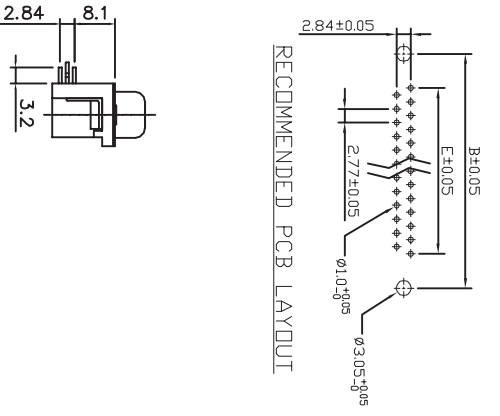
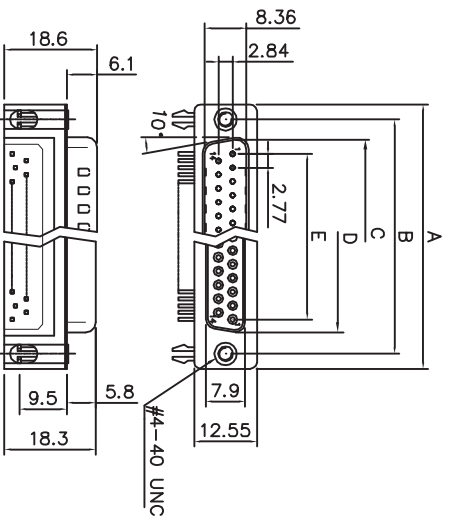
Product Specification

Material  
 Insulator : Glass-Filled Thermoplastic PBT, UL94V-0  
 Contact : Brass  
 Shell : Steel, 100u" Tin Over 50u" min Copper  
 Clinch Nut : Brass, Nickel Plated.  
 Boardlock : Brass, Tin Plated.  
 Screwlock : Brass, Nickel Plated.  
 Electrical  
 Contact Resistance : 20 milliohms  
 Max at 1 AMP DC.  
 Insulation Resistance : 1000  
 megohms at 500 VDC  
 Dielectric Withstanding Voltage :  
 1000 VAC/rms 60HZ for 1 minute  
 Current Rating : 3 AMP  
 Volatge Rating : 250 VAC/rms 60HZ

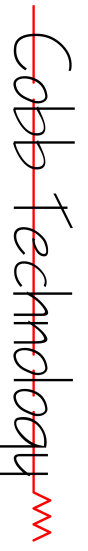


Dimensions

Positions	A	B	C	D	E
9	30.81	24.99	16.92	16.33	11.08
15	39.20	33.30	25.25	24.70	19.39
25	53.05	47.04	38.96	38.40	33.24
37	69.40	63.50	55.42	54.80	49.86

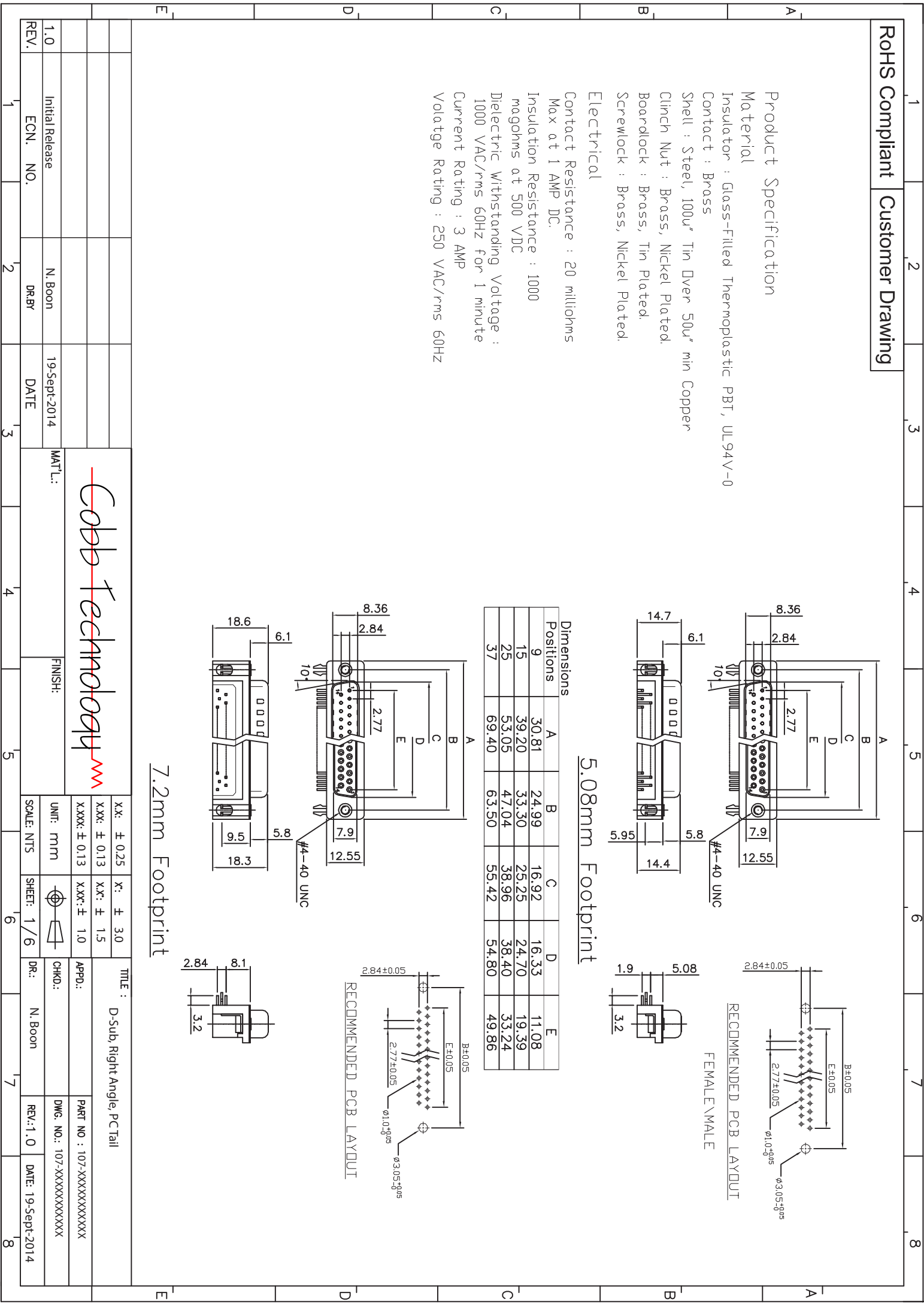


7.2mm Footprint



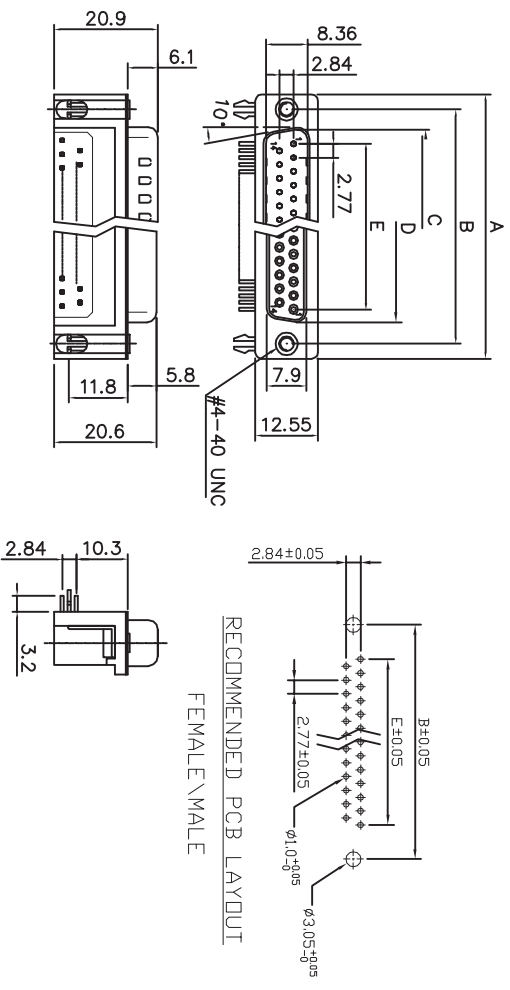
1.0	Initial Release	N. Boon	19-Sept-2014
REV.	ECN. NO.	DR BY	DATE
1			
2			
3			

MAT'L:		FINISH:	
D-Sub, Right Angle, PC Tail			
XX: ± 0.25	XY: ± 3.0	APPD:	PART NO : 107-XXXXXXXXXXXX
XXX: ± 0.13	XX: ± 1.5	CHKD:	DWG. NO: 107-XXXXXXXXXXXX
X,XXX: ± 0.13	X,XX: ± 1.0	DR:	N. Boon
UNIT: mm	SHEET: 1/6	REV.: 1.0	DATE: 19-Sept-2014
SCALE: NTS			



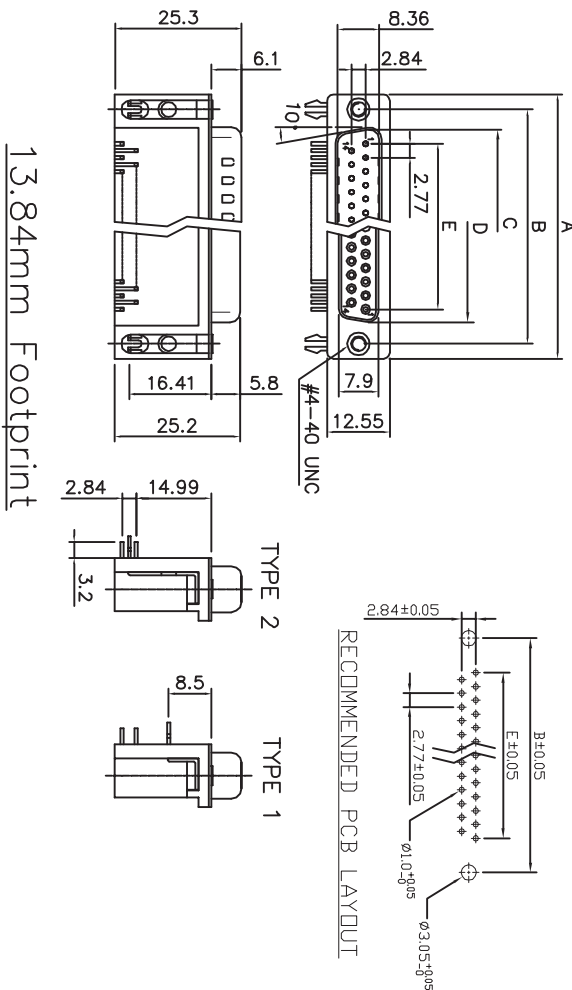
**Product Specification**

Material  
 Insulator : Glass-Filled Thermoplastic PBT, UL94V-0  
 Contact : Brass  
 Shell : Steel, 100u" Tin Over 50u" min Copper  
 Clinch Nut : Brass, Nickel Plated.  
 Boardlock : Brass, Tin Plated.  
 Screwlock : Brass, Nickel Plated.  
 Electrical  
 Contact Resistance : 20 milliohms  
 Max at 1 AMP DC.  
 Insulation Resistance : 1000  
 megohms at 500 VDC  
 Dielectric Withstanding Voltage :  
 1000 VAC/rms 60Hz for 1 minute  
 Current Rating : 3 AMP  
 Voltage Rating : 250 VAC/rms 60Hz

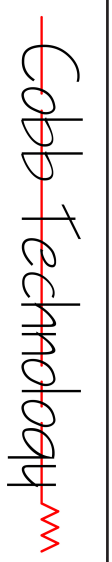


**9.4mm Footprint**

Dimensions	A	B	C	D	E
Positions	30.81	24.99	16.92	16.33	11.08
9	39.20	33.30	25.25	24.70	19.39
15	53.05	47.04	38.96	38.40	33.24
25	69.40	63.50	55.42	54.80	49.86
37					



**13.84mm Footprint**



1.0	Initial Release	N. Boon	19-Sept-2014	MAT'L:	FINISH:	XX: ± 0.25	Y: ± 3.0	TITLE :	D-Sub, Right Angle, PC Tail
REV.	ECN. NO.	DR BY	DATE			XX: ± 0.13	XX: ± 1.5	APPO.:	
						X.XXX: ± 0.13	X.XX: ± 1.0	CHKD.:	
						UNIT: mm		PART NO.:	107-XXXXXXXXXXXX
						SCALE: NTS	SHEET: 2/6	DWG. NO.:	107-XXXXXXXXXXXX
								DR.:	N. Boon
								REV.:	1.0
								DATE:	19-Sept-2014

Product Specification

Material

Insulator : Glass-Filled Thermoplastic PBT, UL94V-0  
 Contact : Brass

Shell : Steel, 100u" Tin Over 50u" min Copper

Clinch Nut : Brass, Nickel Plated

Boardlock : Brass, Tin Plated

Screwlock : Brass, Nickel Plated

Electrical

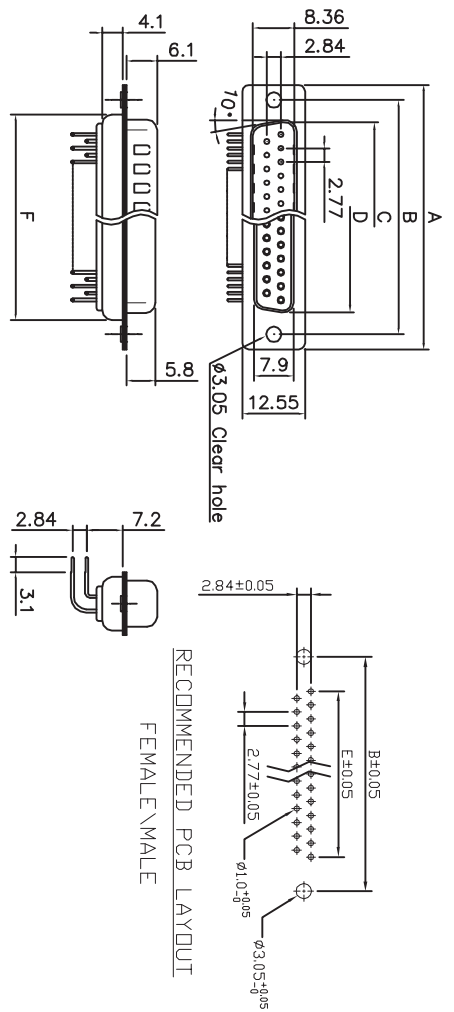
Contact Resistance : 20 milliohms  
 Max at 1 AMP DC.

Insulation Resistance : 1000  
 megohms at 500 VDC

Dielectric Withstanding Voltage :  
 1000 VAC/rms 60Hz for 1 minute

Current Rating : 3 AMP

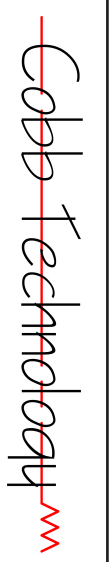
Volatge Rating : 250 VAC/rms 60Hz



Dimensions 7.2mm Footprint Machined Pin (W/O Rear Cover)

Positions	A	B	C	D	E	F
9	30.81	24.99	16.92	16.33	11.08	19.20
15	39.20	33.30	25.25	24.70	19.39	27.70
25	53.05	47.04	38.96	38.40	33.24	41.10
37	69.40	63.50	55.42	54.80	49.86	57.30

50 Positions Machined Pin (W/O Rear Cover)



REV. 1.0 Initial Release ECN. NO. N. Boon DR BY 19-Sept-2014 DATE

MAT'L: FINISH:

TITLE : D-Sub, Right Angle, PC Tail

Appo. : PART NO. : 107-XXXXXXXXXXXX

CHKD. : DWG. NO. : 107-XXXXXXXXXXXX

SCALE: NTS SHEET: 3/6 DR: N. Boon REV.: 1.0 DATE: 19-Sept-2014

Product Specification

Material

Insulator : Glass-Filled Thermoplastic PBT, UL 94V-0

Contact : Brass

Shell : Steel, 100u" Tin Over 50u" min Copper

Clinch Nut : Brass, Nickel Plated.

Boardlock : Brass, Tin Plated.

Screwlock : Brass, Nickel Plated.

Electrical

Contact Resistance : 20 milliohms

Max at 1 AMP DC.

Insulation Resistance : 1000

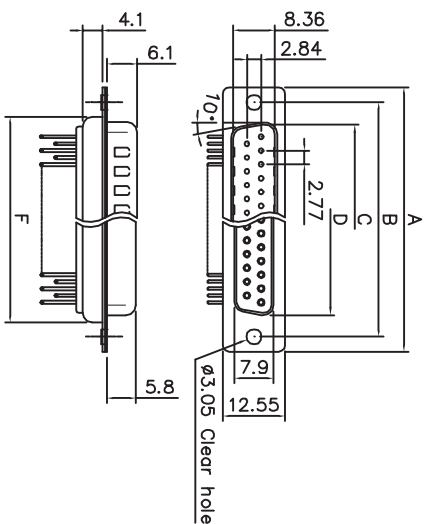
megohms at 500 VDC

Dielectric Withstanding Voltage :

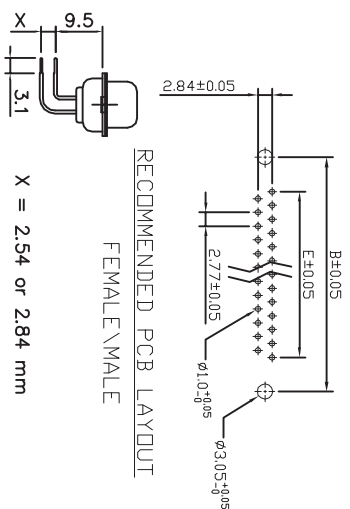
1000 VAC/rms 60Hz for 1 minute

Current Rating : 3 AMP

Voltage Rating : 250 VAC/rms 60Hz

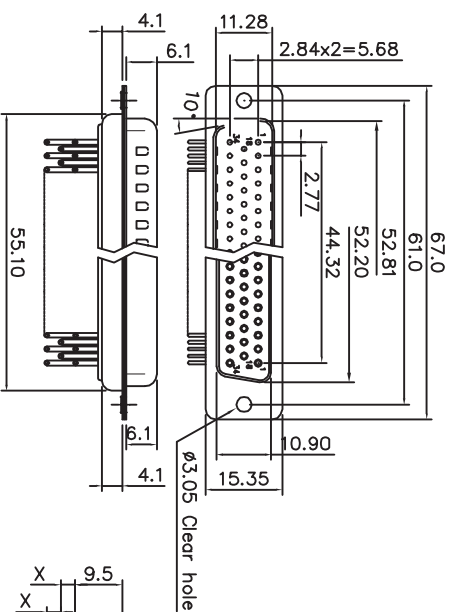


9.4mm Footprint Machined Pin (W/O Rear Cover)



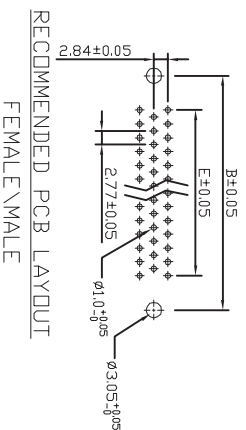
RECOMMENDED PCB LAYOUT FEMALE

Dimensions Positions	A	B	C	D	E	F
9	30.81	24.99	16.92	16.33	11.08	19.20
15	39.20	33.30	25.25	24.70	19.39	27.70
25	53.05	47.04	38.96	38.40	33.24	41.10
37	69.40	63.50	55.42	54.80	49.86	57.30



50 Positions Machined Pin (W/O Rear Cover)

X = 2.54 or 2.84 mm



RECOMMENDED PCB LAYOUT MALE

1 2 3 4 5 6 7 8

MAT'L:

~~Cobb Technology~~

FINISH:

TITLE : D-Sub, Right Angle, PC Tail

XX: ± 0.25 X: ± 3.0  
 XXX: ± 0.13 XX: ± 1.5  
 XXXX: ± 0.13 XXX: ± 1.0

UNIT: mm  
 SCALE: NTS  
 SHEET: 4/6

DR: N. Boon

REV.: 1.0 DATE: 19-Sept-2014

1.0	Initial Release	N. Boon	19-Sept-2014
REV.	ECN. NO.	DR BY	DATE

Ordering Information

107 -  $\frac{XX}{a}$   $\frac{X}{b}$   $\frac{X}{c}$   $\frac{X}{d}$   $\frac{X}{e}$   $\frac{X}{f}$   $\frac{X}{g}$   $\frac{X}{h}$   $\frac{X}{i}$   $\frac{X}{j}$

- a. No. Of Contacts:
- 09: 09 positions
  - 15: 15 positions
  - 25: 25 positions
  - 37: 37 positions
- e. Insulator Color
- 1:Blue
  - 2:Black(standard)
  - 3:White
  - 4:Gray
  - 5:Green
  - 6:Black(high temperature)
  - 7:PC99 red
  - 8:PC99 yellow
  - 9:PC99 Purple
  - A:Black W/O halogen
- h. Contact Type
- 1:Stamped contact
  - 2:Machined contact
  - 3:Machined contact(with shaped plastic)
  - 4:Stamped contact(Phositor Bronze)
  - i. Ferrite Options
  - 0:Without Ferrite
  - 1:With Ferrite
  - j. Footprint
  - 1:7.2mm footprint
  - 2:9.4mm footprint
  - 3:13.84mm footprint Type 1 (plastic long Type, Boardlock 7.2mm)
  - 4:13.84mm footprint Type 2 (plastic long Type, Boardlock 13.84mm)
  - 5:5.08mm footprint
  - 6:3.0mm footprint
  - 7:13.84mm footprint Type 3 (plastic short Type, Boardlock 7.2mm)

- b. Contact Type
- 1: Male
  - 2: Female
  - 3: Male(reverse direction)
  - 4: Female(reverse direction)
  - 6: Female(3.5mm)
  - 8: Female(4.0mm)
- c. Contact Plating
- 0: Gold flash selective gold(standard)
  - 1: 5u" selective gold on contact
  - 2: 10u" selective gold on contact
  - 3: 15u" selective gold on contact
  - 4: 30u" selective gold on contact
  - 5: 50u" selective gold on contact
  - 6: Gold flash full gold
  - 7: Gold flash selective gold add plating
  - 8: Full tin
  - 9: Matte tin
  - A: 30u" selective gold on contact;matte tin
  - B: 15u" gold flash full gold
  - d. Shell plating
  - 0: Cr<sup>+</sup>3 yellow chrome
  - 1: Nickel(standard)
  - 2: Tin
  - 3: Cr<sup>+</sup>6 yellow chrome
  - 4: Gold flash
  - 5: Tin, not dimple
  - 6: Cr<sup>+</sup>6 yellow chrome, dimple
  - 7: Special tin, dimple
  - 8: Cr<sup>+</sup>3 yellow chrome, dimple
  - 9: Matte tin
  - A: Nickel plated(With Y-S Logo)
  - B: Tin plated(With Y-S Logo)

- f. Rivet Options
- 0:None
  - 1:Grounding Strap #4-40 threaded on panel
  - 2:Grounding Strap #4-40 threaded on PCB&panel
  - 3:Grounding hook Boardlock+2 prong(Tin)
  - 4:Grounding hook Boardlock+4 prong
  - 5:Grounding Strap, M3
  - 6:Grounding Strap, clear hole
  - 7:Plastic, Grounding Strap+grounding Hook Boardlock 2 prong
  - 8:Plastic, L-shaped bracket(suspend machined pin)
  - 9:Grounding Strap full include(13.84mm)
  - A:Grounding Strap half include(13.84mm)
  - B:Grounding Strap full include(7.2mm)
  - C:Grounding hook Boardlock+2 prong(matte tin)
  - D:Grounding hook Boardlock+4 prong(matte tin)
  - E:Rear rivet, 4.0mm
  - g. Flange Mounting Option
  - 0:Ø3.05mm clear hole
  - 1:Ø4-40 threaded hole
  - 2:Ø4-40 threaded hole with #4-40 unc(4.8x11.8mm)screwlock installed
  - 3:Ø4-40 threaded hole with #4-40 unc(4.8x11.8mm)screwlock bulk-packed
  - 4:M3 threaded hole
  - 5:Ø4-40 threaded hole with M3(4.8x11.8mm)screwlock installed
  - 6:M2.6 threaded hole
  - 7:Ø4-40 threaded hole with M2.6(4.8x11.8mm)screwlock installed
  - 8:Ø4-40 threaded hole with screw locking type #4-40 unc(4.80x11.80mm)
  - 9:Front hex rivet, 5.9mm (#4-40 unc)
  - A:Ø4-40 threaded hole with pan head screw(Gross slot) screwlock installed
  - B:Ø4-40 threaded hole with #4-40 unc(6.2x11.8mm)screwlock installed
  - C:Ø4-40 threaded hole with M2.6(5.8x11.8mm)screwlock installed
  - D:Ø4-40 threaded hole with M3(4.8x11.8mm)screwlock installed+flat washer
  - E:Ø4-40 threaded hole with M3(5.0x13.0mm)screwlock installed
  - F:Ø4-40 threaded hole with M2.6(5.8x11.8mm)screwlock installed
  - G:Ø4-40 threaded hole with #4-40 unc(5.8x10.8mm)screwlock installed
  - H:M3 boardlock
  - I:Ø4-40 threaded hole with #4-40 unc(5.8x11.8mm)screwlock installed
  - J:Ø4-40 threaded hole with #4-40 unc(4.8x11.8mm)screwlock installed+flat washer
  - K:Front hex rivet, 5.9mm(M3)
  - L:Ø4-40 threaded hole with screw locking type M3(5.8x11.8mm)
  - M:Front round rivet, #4-40 unc
  - N:Ø4-40 unc boardlock installed
  - O:Ø4-40 threaded hole with #4-40 unc(5.8x11.8mm)screwlock bulk-packed
  - P:Front hex rivet(5.0mm), M3
  - Q:Ø4-40 threaded hole with screw locking type M3(5.8x10.8mm)
  - R:Ø4-40 threaded hole with screw locking type #4-40 unc(5.8x11.8mm)
  - S:Front nuts #4-40unc with round "-" font #4-40 unc(6.1x11.94mm)screwlock installed
  - T:Ø4-40 threaded hole with round "-" font #4-40 unc(5.0x10.0mm)screwlock installed
  - U:Ø4-40 threaded hole with screw locking type with round "-" font #4-40 unc(6.1x11.94mm)
  - V:Ø4-40 threaded hole with #4-40 unc(3.9x10.57mm)screwlock installed
  - W:Ø4-40 threaded hole with #4-40 unc(4.2x10.57mm)screwlock installed
  - X:Ø4-40 threaded hole with #4-40 unc(5.8x13.0mm)screwlock installed
  - Y:Ø4-40 threaded hole with #4-40 unc(5.0x10.0mm)screwlock installed

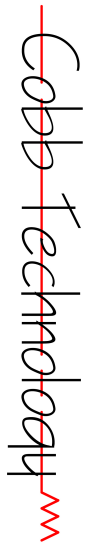
- 1: Male
- 2: Female
- 3: Male(reverse direction)
- 4: Female(reverse direction)
- 6: Female(3.5mm)
- 8: Female(4.0mm)
- 0: Gold flash selective gold(standard)
- 1: 5u" selective gold on contact
- 2: 10u" selective gold on contact
- 3: 15u" selective gold on contact
- 4: 30u" selective gold on contact
- 5: 50u" selective gold on contact
- 6: Gold flash full gold
- 7: Gold flash selective gold add plating
- 8: Full tin
- 9: Matte tin
- A: 30u" selective gold on contact;matte tin
- B: 15u" gold flash full gold
- d. Shell plating
- 0: Cr<sup>+</sup>3 yellow chrome
- 1: Nickel(standard)
- 2: Tin
- 3: Cr<sup>+</sup>6 yellow chrome
- 4: Gold flash
- 5: Tin, not dimple
- 6: Cr<sup>+</sup>6 yellow chrome, dimple
- 7: Special tin, dimple
- 8: Cr<sup>+</sup>3 yellow chrome, dimple
- 9: Matte tin
- A: Nickel plated(With Y-S Logo)
- B: Tin plated(With Y-S Logo)

- 1: Male
- 2: Female
- 3: Male(reverse direction)
- 4: Female(reverse direction)
- 6: Female(3.5mm)
- 8: Female(4.0mm)
- 0: Gold flash selective gold(standard)
- 1: 5u" selective gold on contact
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- 3: 15u" selective gold on contact
- 4: 30u" selective gold on contact
- 5: 50u" selective gold on contact
- 6: Gold flash full gold
- 7: Gold flash selective gold add plating
- 8: Full tin
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- A: 30u" selective gold on contact;matte tin
- B: 15u" gold flash full gold
- d. Shell plating
- 0: Cr<sup>+</sup>3 yellow chrome
- 1: Nickel(standard)
- 2: Tin
- 3: Cr<sup>+</sup>6 yellow chrome
- 4: Gold flash
- 5: Tin, not dimple
- 6: Cr<sup>+</sup>6 yellow chrome, dimple
- 7: Special tin, dimple
- 8: Cr<sup>+</sup>3 yellow chrome, dimple
- 9: Matte tin
- A: Nickel plated(With Y-S Logo)
- B: Tin plated(With Y-S Logo)

- 1: Male
- 2: Female
- 3: Male(reverse direction)
- 4: Female(reverse direction)
- 6: Female(3.5mm)
- 8: Female(4.0mm)
- 0: Gold flash selective gold(standard)
- 1: 5u" selective gold on contact
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- 3: 15u" selective gold on contact
- 4: 30u" selective gold on contact
- 5: 50u" selective gold on contact
- 6: Gold flash full gold
- 7: Gold flash selective gold add plating
- 8: Full tin
- 9: Matte tin
- A: 30u" selective gold on contact;matte tin
- B: 15u" gold flash full gold
- d. Shell plating
- 0: Cr<sup>+</sup>3 yellow chrome
- 1: Nickel(standard)
- 2: Tin
- 3: Cr<sup>+</sup>6 yellow chrome
- 4: Gold flash
- 5: Tin, not dimple
- 6: Cr<sup>+</sup>6 yellow chrome, dimple
- 7: Special tin, dimple
- 8: Cr<sup>+</sup>3 yellow chrome, dimple
- 9: Matte tin
- A: Nickel plated(With Y-S Logo)
- B: Tin plated(With Y-S Logo)

- 1: Male
- 2: Female
- 3: Male(reverse direction)
- 4: Female(reverse direction)
- 6: Female(3.5mm)
- 8: Female(4.0mm)
- 0: Gold flash selective gold(standard)
- 1: 5u" selective gold on contact
- 2: 10u" selective gold on contact
- 3: 15u" selective gold on contact
- 4: 30u" selective gold on contact
- 5: 50u" selective gold on contact
- 6: Gold flash full gold
- 7: Gold flash selective gold add plating
- 8: Full tin
- 9: Matte tin
- A: 30u" selective gold on contact;matte tin
- B: 15u" gold flash full gold
- d. Shell plating
- 0: Cr<sup>+</sup>3 yellow chrome
- 1: Nickel(standard)
- 2: Tin
- 3: Cr<sup>+</sup>6 yellow chrome
- 4: Gold flash
- 5: Tin, not dimple
- 6: Cr<sup>+</sup>6 yellow chrome, dimple
- 7: Special tin, dimple
- 8: Cr<sup>+</sup>3 yellow chrome, dimple
- 9: Matte tin
- A: Nickel plated(With Y-S Logo)
- B: Tin plated(With Y-S Logo)

1.0	Initial Release	N. Boon	19-Sept-2014	MAT'L:	FINISH:	SCALE: NTS	SHEET: 5/6	DR:	N. Boon	REV.: 1.0	DATE: 19-Sept-2014
REV.	ECN. NO.	DR BY	DATE								



TITLE : D-Sub, Right Angle, PC Tail

PART NO : 107-XXXXXXXXXXXX

DWG. NO.: 107-XXXXXXXXXXXX

	1	2	3	4	5	6	7	8
A								
B								
C								
D								
E								

1.0	Initial Release	N. Boon	19-Sept-2014	MAT'L:	FINISH:	XX: ± 0.25	XY: ± 3.0	TITLE :	D-Sub, Right Angle, PC Tail
REV.	ECN. NO.	DR BY	DATE			X.XX: ± 0.13	X.XX: ± 1.5	APPD.:	
						X.XXX: ± 0.13	X.XX: ± 1.0	CHKD.:	
						UNIT: mm		DR:	N. Boon
						SCALE: NTS	SHEET: 6/6	REV.:	1.0
								DATE:	19-Sept-2014

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