



Advanced Capacitors for Demanding Applications



The Industry's Most Power-Dense Capacitor Technology

EVANSCAPS' trusted and proven hybrid technology is perfectly suited for defense & aerospace applications requiring high power in a rugged compact hi-rel hermetic package.



2018 National Subcontractor of the Year



TDD Series



The TDD Series tantalum hybrid capacitors has the **highest power density** of any tantalum capacitor technology. Ultra-low ESR & compact construction enables very high current capability and aggressive duty cycles.

Part Number	DSCC PN	Voltage (@85°C)	Voltage (@125°C)	Capacitance 120Hz (µF)	ESR 1KHz (mΩ)	Height (in)
TDD1010603	15010-01	10	6	60,000	30	0.31
TDD2010124	15010-02	10	6	120,000	20	0.45
TDD3010184	15010-03	10	6	180,000	15	0.6
TDD4010244	15010-04	10	6	240,000	12	0.75
TDD1016403	15010-05	16	9.6	40,000	30	0.31
TDD2016803	15010-06	16	9.6	80,000	20	0.45
TDD3016124	15010-07	16	9.6	120,000	15	0.6
TDD4016164	15010-08	16	9.6	160,000	12	0.75
TDD1025243	15010-09	25	15	24,000	30	0.31
TDD2025483	15010-10	25	15	48,000	20	0.45
TDD3025723	15010-11	25	15	72,000	15	0.6
TDD4025963	15010-12	25	15	96,000	12	0.75
TDD1035163	15010-13	35	21	16,000	40	0.31
TDD2035323	15010-14	35	21	32,000	20	0.45
TDD3035483	15010-15	35	21	48,000	15	0.6
TDD4035643	15010-16	35	21	64,000	12	0.75
TDD1050113	15010-17	50	30	11,000	50	0.31
TDD2050223	15010-18	50	30	22,000	25	0.45
TDD3050333	15010-19	50	30	33,000	17	0.6
TDD4050443	15010-20	50	30	44,000	15	0.75
TDD1063472	15010-21	63	38	4,700	50	0.31
TDD2063942	15010-22	63	38	10,000	25	0.45
TDD3063143	15010-23	63	38	14,000	17	0.6
TDD4063183	15010-24	63	38	18,000	15	0.75
TDD1080302	15010-25	80	48	3,000	55	0.31
TDD2080602	15010-26	80	48	6,000	27	0.45
TDD3080902	15010-27	80	48	9,000	17	0.6
TDD4080123	15010-28	80	48	12,000	15	0.75
TDD1100222	15010-29	100	60	2,200	65	0.31
TDD2100442	15010-30	100	60	4,400	30	0.45
TDD3100662	15010-31	100	60	6,600	20	0.6
TDD4100882	15010-32	100	60	8,800	15	0.75
TDD1125152	15010-33	125	75	1,500	100	0.31
TDD2125302	15010-34	125	75	3,000	50	0.45
TDD3125452	15010-35	125	75	4,500	35	0.6
TDD4125602	15010-36	125	75	6,000	25	0.75

THQ Series



The THQ Series tantalum hybrid capacitors come in a 1.4" diameter round tantalum case and provide high reliability with 15 years of proven field service.

Part Number	DSCC PN	Voltage (@85°C)	Voltage (@125°C)	Capacitance 120Hz (µF)	ESR 1KHz (mΩ)	Height (in)
THQ1010503	04001-01	10	6	50,000	50	0.312
THQ2010104		10	6	100,000	37	0.46
THQ3010154	04003-01	10	6	150,000	25	0.608
THQ4010204	09022-01	10	6	200,000	25	0.725
THQ5010204	04004-01	10	6	200,000	15	0.765
THQ1016303	04001-02	16	9.5	30,000	50	0.312
THQ2016603		16	9.5	60,000	37	0.46
THQ3016903	04003-02	16	9.5	90,000	25	0.608
THQ4016124	09022-02	16	9.5	120,000	25	0.725
THQ5016124	04004-02	16	9.5	120,000	15	0.765
THQ1025183	04001-03	25	15	18,000	50	0.312
THQ2025363		25	15	36,000	50	0.46
THQ3025543	04003-03	25	15	54,000	35	0.608
THQ4025703	09022-03	25	15	70,000	25	0.725
THQ5025703	04004-03	25	15	70,000	20	0.765
THQ1035123	04001-04	35	20	12,000	50	0.312
THQ2035243		35	20	24,000	50	0.46
THQ3035363	04003-04	35	20	36,000	35	0.608
THQ4035503	09022-04	35	20	50,000	25	0.725
THQ5035503	04004-04	35	20	50,000	20	0.765
THQ1050802	04001-05	50	30	8,000	60	0.312
THQ2050163		50	30	16,000	60	0.46
THQ3050243	04003-05	50	30	24,000	35	0.608
THQ4050323	09022-05	50	30	32,000	25	0.725
THQ5050303	04004-05	50	30	30,000	20	0.765
THQ1063402	04001-06	63	37.5	4,000	100	0.312
THQ2063802		63	37.5	8,000	70	0.46
THQ3063123	04003-06	63	37.5	12,000	35	0.608
THQ4063163	09022-06	63	37.5	16,000	35	0.725
THQ5063163	04004-06	63	37.5	16,000	30	0.765
THQ1080282	04001-07	80	48	2,800	100	0.312
THQ2080562		80	48	5,600	70	0.46
THQ3080822	04003-07	80	48	8,200	40	0.608
THQ4080113	09022-07	80	48	11,000	35	0.725
THQ5080113	04004-07	80	48	11,000	30	0.765
THQ1100192	04001-08	100	60	1,900	125	0.312
THQ2100382		100	60	3,800	90	0.46
THQ3100572	04003-08	100	60	5,700	50	0.608
THQ4100752	09022-08	100	60	7,500	35	0.725
THQ5100752	04004-08	100	60	7,500	40	0.765
THQ1110152	04001-09	110	66	1,500	200	0.312
THQ2110302		110	66	3,000	140	0.46
THQ3110452	04003-09	110	66	4,500	75	0.608
THQ4110602		110	66	6,000	50	0.725
THQ1125112		125	75	1,100	200	0.312
THQ2125222		125	75	2,200	140	0.46
THQ3125332	04003-10	125	75	3,300	75	0.608
THQ4125452	09022-09	125	75	4,500	50	0.725
THQ5125452	04004-09	125	75	4,500	40	0.765



Advanced Capacitors for Demanding Applications

www.evanscap.com

Mounting

Studs can be added to any TDD or THQ series capacitor. Studs are #2-56 VDA 752 and are available in several lengths from 0.150" – 0.400".

Visit <http://www.evanscap.com/Stud-Mount-Hybrid-Caps.html> for a complete listing of all stud options.

HyCap Series



HyCap capacitors offer the same proven Hybrid capacitor technology in the traditional tantalum wet case style. They are available in standard DSCC 93026 and DSCC 10004 ratings.

Part Number	DSCC PN	Voltage (@85°C)	Voltage (@125°C)	Capacitance 120Hz (µF)	ESR (mΩ)	Length (in)	Dia (in)
HC2B025102	10004-19	25	15	100	0.5	0.641	0.281
HC2B050471	10004-20	50	30	470	0.9	0.641	0.281
HC3B050681	10004-25	50	30	680	0.9	0.641	0.281
HCD050681	93026-40	50	30	680	0.4	1.062	0.375
HC2D050152	10004-08	50	30	1,500	0.45	1.062	0.375
HC3D050222	10004-15	50	30	2,200	0.6	1.062	0.375
HC4D050272	50	30	2,700	0.4	1.062	0.375	
HCB060151	93026-42	60	40	150	1.1	0.641	0.281
HC2B060331	10004-21	60	40	330	0.9	0.641	0.281
HC3B060471	10004-26	60	40	470	1	0.641	0.281
HC3B060561	10004-27	60	40	560	1	0.641	0.281
HCD060561	93026-44	60	40	560	0.8	1.062	0.375
HC2D060122	10004-16	60	40	1,200	0.5	1.062	0.375
HC3D060182	10004-28	60	40	1,800	0.5	1.062	0.375
HC4D060222	60	40	2,200	0.45	1.062	0.375	
HCB075111	93026-46	75	50	110	1.3	0.641	0.281
HCD075471	93026-48	75	50	470	0.9	1.062	0.375
HC2B075221	10004-22	75	50	220	1	0.641	0.281
HC3B075331	10004-29	75	50	330	1.3	0.641	0.281
HC4B075391	75	50	390	1	0.641	0.281	
HC2D075941	10004-17	75	50	940	0.5	1.062	0.375
HC3D075122	10004-30	75	50	1,200	0.8	1.062	0.375
HC4D075152	75	50	1,500	0.5	1.062	0.375	
HCB100680	93026-50	100	65	68	2.1	0.641	0.281
HC2B100151	10004-23	100	65	150	1.2	0.641	0.281
HC3B100221	100	65	220	1	0.641	0.281	
HC4B100271	100	65	270	1.2	0.641	0.281	
HCD100221	93026-52	100	65	220	1.2	1.062	0.375
HC2D100471	10004-18	100	65	470	0.7	1.062	0.375
HC3D100681	100	65	680	0.5	1.062	0.375	
HC4D100821	100	65	820	0.5	1.062	0.375	
HCD125151	93026-56	125	85	150	1.6	1.062	0.375
HC2D125241	10004-14	125	85	240	0.8	1.062	0.375
HC2D125331	10004-24	125	85	330	0.8	1.062	0.375
HC3D125471	125	85	470	0.6	1.062	0.375	
HC4D125561	125	85	560	0.7	1.062	0.375	

HyCap High Temperature "HT" Series



High Temperature HyCap Series Hybrid capacitors are designed for operation up to 200°C. HC-HT capacitors provide a full rated life of 2,000 hours at 200°C and HC2-HT capacitors are rated for 1,000 hours at 200°C.

Part Number	DSCC PN	Voltage (@175°C)	Voltage (@200°C)	Capacitance (µF)	ESR (mΩ)	Length (in)	Dia (in)
HC2B050471HT	N/A	30	25	470	0.9	0.641	0.281
HC2D050152HT	N/A	30	25	1,500	0.5	1.062	0.375
HCD050681HT	N/A	35	30	680	0.7	1.062	0.375
HC2B060331HT	N/A	36	30	330	0.9	0.641	0.281
HCD060561HT	N/A	42	36	560	0.8	1.062	0.375
HC2D060122HT	N/A	36	30	1,200	0.5	1.062	0.375
HC2B075221HT	N/A	45	37	220	1	0.641	0.281
HC2D075941HT	N/A	45	37	940	0.6	1.062	0.375
HCB075111HT	N/A	50	45	110	1.3	0.641	0.281
HCD075471HT	N/A	50	45	470	0.9	1.062	0.375
HC2B100151HT	N/A	60	50	150	1.2	0.641	0.281
HC2D100471HT	N/A	60	50	470	0.7	1.062	0.375
HCB100680HT	N/A	70	60	68	2.1	0.641	0.281
HCD100221HT	N/A	70	60	220	1.2	1.062	0.375
HCD125151HT	N/A	85	75	150	1.6	1.062	0.375
HC2D125331HT	N/A	75	62	330	0.8	1.062	0.375

THQ-A2/M2



THQA2 and THQM2 series provide high power in a compact, hermetic, tantalum package. The THQM2 series offer a 4 pin stud mount case.

Part Number	DSCC PN	Voltage (@85°C)	Voltage (@125°C)	Capacitance 120Hz (µF)	ESR (mΩ)	Dia (in)	Height (in)
THQA2010103	04005-01	10	6	10,000	200	0.6	0.274
THQM2010103	04005-11	10	6	10,000	200	Ref Spec	0.45
THQA2016502	04005-02	16	9.5	5,000	200	0.6	0.274
THQM2016502	04005-12	16	9.5	5,000	200	Ref Spec	0.45
THQA2025382	04005-03	25	15	3,800	200	0.6	0.274
THQM2025382	04005-13	25	15	3,800	200	Ref Spec	0.45
THQA2030302	04005-04	30	18	3,000	250	0.6	0.274
THQM2030302	04005-14	30	18	3,000	250	Ref Spec	0.45
THQA2035252	04005-05	35	21	2,500	250	0.6	0.274
THQM2035252	04005-15	35	21	2,500	250	Ref Spec	0.45
THQA2050152	04005-06	50	30	1,500	250	0.6	0.274
THQM2050152	04005-16	50	30	1,500	250	Ref Spec	0.45
THQA2060871	04005-07	60	36	870	350	0.6	0.274
THQM2060871	04005-17	60	36	870	350	Ref Spec	0.45
THQA2075561	04005-08	75	45	565	500	0.6	0.274
THQM2075561	04005-18	75	45	565	500	Ref Spec	0.45
THQA2100361	04005-09	100	60	360	800	0.6	0.274
THQM2100361	04005-19	100	60	360	800	Ref Spec	0.45
THQA2125211	04005-10	125	75	215	1250	0.6	0.274
THQM2125211	04005-20	125	75	215	1250	Ref Spec	0.45

THQS2 Shock Hard Series

THQS2 series "Shock Hard" hybrid capacitors are for applications with high impact shock requirements. Unlimited shelf life. Applications are limited cycle, limited time on charge such as missile fusing and short duration power hold up. Impact shock capability of 30,000g and higher. THQS2 products are not for export.

Part Number	DSCC PN	Voltage (@85°C)	Voltage (@125°C)	Capacitance 120Hz (µF)	ESR 120Hz (mΩ)	Dia (in)	Height (in)
THQS2008133		8	4.8	13,000	200	0.6	0.341
THQS2010103		10	6	10,000	200	0.6	0.341
THQS2016622		16	9.5	6,250	200	0.6	0.341
THQS2025442		25	15	4,400	200	0.6	0.341
THQS2035292		35	21	2,900	250	0.6	0.341
THQS2050162		50	30	1,600	250	0.6	0.341

THQA2-HT High Temperature Series

THQA2-HT Series hybrid capacitors are suitable for operation up to 200°C. THQA2-HT Hybrid Capacitors are in the same form factor as the standard THQA2, with a life of 1,000 hours at 200°C or 2,000 hours at 175°C.

Part Number	DSCC PN	Voltage (@175°C)	Voltage (@200°C)	Capacitance 120Hz (µF)	ESR (mΩ)	Dia (in)	Height (in)
THQA2075561HT	N/A	37.5	30	560	500	0.6	0.274
THQA2100361HT	N/A	50	40	360	800	0.6	0.274
THQA2125211HT	N/A	62.5	50	215	1250	0.6	0.274

The Industry's Most Power-Dense Capacitor Technology

Capattery Series



Capattery super capacitors are designed for longer duration power hold up and memory backup applications. Specifications are per the DSCC 92001. Full operating temperature range of -55°C to 85°C. Unlimited cycle life and shelf life. Steady state charge life is > 25 years.

Part Number	DSCC PN	Voltage (@85°C)	Capacitance (µF)	ESR (mΩ)
RS055105	92001-07	5.5	1,000,000	2000
RE110474	92001-09	11	470,000	2000
RE055105	92001-02	5.5	1,000,000	1000
RE055104	92001-05	5.5	100,000	6000
RS110564	92001-14	10	560,000	4000

Capattery Shock Hardened Series

The Capattery shock hardened models are ideal for weapons systems. They can withstand shocks measured up to 100,000G and spin rates >3,000. Able to power electronics for penetrator testing. Shock hardened series not available for export.

Part Number	Voltage (@85°C)	Capacitance (µF)
RSS055105	5.5	1,000,000
RSS110504	11	500,000
RES160504	16	500,000

Capacitor Bank Assemblies



COTS capacitor banks are available in 3 or 6 pack assemblies. They can be used with any THQ or TDD capacitors. They are available in capacitance ranges from 1100µF to 0.9F and voltage ranges from 10V to 300V. Custom configurations are available.

Series	Voltage Range (@85°C)	Voltage Range (@125°C)	Capacitance Range 120Hz (µF)	ESR Range (mΩ)
3S Series	150V-300V	90V-180V	1100-4000	100-180
3P Series	10V-100V	6V-60V	9900-450000	10-35
6P Series	10V-125V	6V-75V	20000-900000	50-60

The industry's most power-dense capacitor, providing significant savings of space, weight, and power compared to other capacitor technologies.



72 Boyd Avenue, East Providence, RI 02914 USA
 401.435.3555 | info@evanscap.com | www.evanscap.com

**Sales Contact for:
Canada**



768 Adencliff Drive,
 Ottawa, ON, K4A 3E5, Canada
 +1 613-501 5316
bernadette@btiglobalinnovation.com