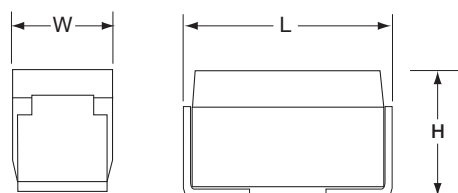


TCP Series - DSCC 09009



TCP Series Low ESR Tantalum Modules



TCP Series tantalum modules represent high packing density for applications utilizing multiple components in a parallel configuration, and are available with testing to DSCC 09009.

These modules feature stacked assemblies of CWR29 capacitors which provide ultra low ESR and utilize established reliability capacitors (Weibull Grade voltage conditioning) in accordance with MIL-PRF-55365. They can also be supplied with SRC9000 Space Level components.

The stacked construction of fully molded capacitors is compatible with

a wide range of SMT board assembly processes including reflow solder or conductive epoxy.

There are two termination finishes available: hot solder dipped ("C") and gold plated ("B").

The molding compound has been selected to meet the requirements of UL94V-0 and outgassing requirements of ASTM E-595.

For moisture sensitivity levels please refer to the High Reliability Tantalum MSL section located in the back of the High Reliability Tantalum Catalog.

**Note: Additional form factors and ratings are available.
Contact plant for details.**

CAPACITANCE AND RATED VOLTAGE CASE SIZE (ESR IN mΩ)

Capacitance		Rated voltage DC (V_R) to 85°C						
μF	Code	6V	10V	15V	20V	25V	35V	50V
9.4	945							2H (200)
18.8	196							4H (100)
20	206						2H (200)	
28.2	286							6H (67)
40	406						4H (100)	
60	606						6H (67)	
66	666					2H (85)		
94	946				2H (75)			
132	137					4H (43)		
188	197				4H (38)			
198	207					6H (28)		
200	207			2H (63)				
282	287				6H (25)			
400	407			4H (31)				
440	447		2H (50)					
600	607			6H (21)				
660	667	2H (50)						
880	887		4H (25)					
1,320	138	4H (25)	6H (17)					
1,980	208	6H (17)						

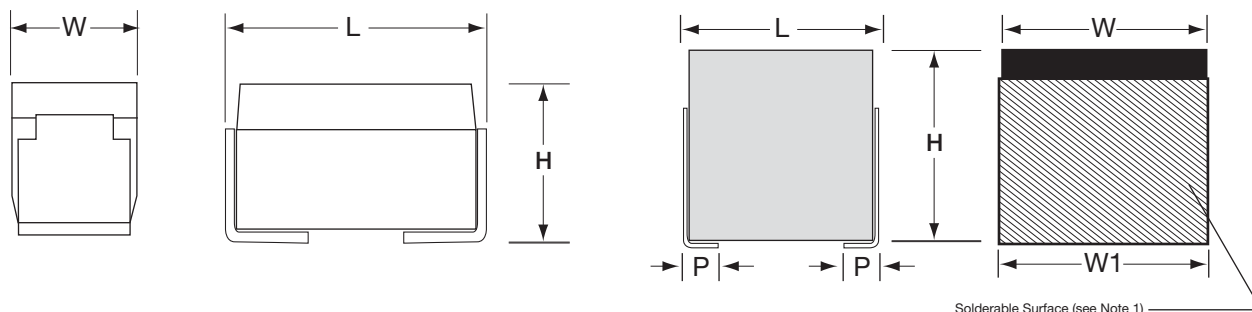


TCP Series - DSCC 09009



TCP Series Low ESR Tantalum Modules

DIMENSIONS



CASE DIMENSIONS:

millimeters (inches)

Case Code	Length (L) ±0.38 (0.015)	Width (W) ±0.38 (0.015)	Height (H) ±0.38 (0.015)	Term. Width (W ₁) ±0.38 (0.015)	Term. Length (P) For Reference Only
2H	7.82 (0.308)	4.06 (0.160)	6.10 (0.240)	4.06 (0.160)	1.52 (0.060)
4H	7.82 (0.308)	8.13 (0.320)	6.10 (0.240)	8.13 (0.320)	1.52 (0.060)
6H	7.82 (0.308)	8.13 (0.320)	9.14 (0.360)	8.13 (0.320)	1.52 (0.060)

Additional form factors and ratings are available – contact plant for details.

HOW TO ORDER

TC	2H	945	K	050	L	R	#	@	0	^	++
Type	Case Size	Capacitance Code	Capacitance Tolerance	Voltage Code	Standard or Low ESR Range	Packaging	Inspection Level	Reliability Grade	Qualification Level	Termination Finish	Surge Test Option
		pF code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow)	M = ±20% K = ±10% J = ±5%	006 = 6Vdc 010 = 10Vdc 015 = 15Vdc 020 = 20Vdc 025 = 25Vdc 035 = 35Vdc 050 = 50Vdc	L = Low ESR	B = Bulk R = 7" T&R	S = Std. Conformance L = Group A D = DSCC DWG	Weibull: B = 0.1%/1000 hrs. 90% conf. C = 0.01%/1000 hrs. 90% conf. D = 0.001%/1000 hrs. 90% conf. Z = Non-ER	0 = N/A 9 = SRC9000	8 = Hot Solder Dipped 9 = Gold Plated	00 = None 23 = 10 Cycles, +25°C 24 = 10 Cycles, -55°C & +85°C 45 = 10 cycles, -55°C & +85°C before Weibull

DSCC DWG P/N:

09009	-01	K	B	C	A
DSCC DWG 09009	Dash Number See Rating Tables	Capacitance Tolerance K = ±10% M = ±20%	Reliability Grade B = B Weibull C = C Weibull D = D Weibull	Termination Finish B = Gold Plated (10 microinch minimum) C = Hot Solder Dip (60 microinch minimum)	Surge Test Option A = 10 cycles, +25°C B = 10 cycles, -55°C & +85°C C = 10 cycles, -55°C & +85°C before Weibull Z = None required Per MIL-PRF-55365

TECHNICAL SPECIFICATIONS

Technical Data:	Unless otherwise specified, all technical data relate to an ambient temperature of 25°C							
Capacitance Range:	9.4 µF to 1,980 µF							
Capacitance Tolerance:	±5%; ±10%; ±20%							
Rated Voltage: (V _R)	≤85°C:	6	10	15	20	25	35	50
Category Voltage: (V _C)	125°C:	4	6.7	10	13.3	16.7	23.3	33.3
Surge Voltage: (V _S)	≤85°C:	8	13.3	20	26.7	33.3	46.7	66.7
	125°C:	5.3	8.7	13.3	17.8	22.2	31.1	44.5
Temperature Range:	-55°C to +125°C							



TCP Series - DSCC 09009



TCP Series Low ESR Tantalum Modules

RATINGS & PART NUMBER REFERENCE

2-STACK				Parametric Specifications by Rating				Typical Ripple Data by Rating					
AVX P/N	DSCC P/N	Case	Cap µF	Volt V	ESR @ 100 kHz +25°C mΩ	DC Leakage (max) µA		Dissipation Factor (max) %		100kHz Ripple Current Rating		100kHz Ripple Voltage Rating	
						+25°C	+85°C	+25°C	+(85/125)°C	+25°C	+85°C	+25°C	+85°C
TC2H667*006□□#00++	09009-001*01++	2H	660	6	50	39.6	396	10	12	2.45	2.20	0.98	0.12
TC2H447*010□□#00++	09009-002*01++	2H	440	10	50	44	440	10	12	2.45	2.20	0.98	0.12
TC2H207*015□□#00++	09009-003*01++	2H	200	15	63	30	300	10	12	2.19	1.97	0.88	0.12
TC2H946*020□□#00++	09009-004*01++	2H	94	20	75	18.8	188	8	10	2.00	1.80	0.80	0.15
TC2H666*025□□#00++	09009-005*01++	2H	66	25	85	16.5	165	8	10	1.88	1.69	0.75	0.16
TC2H206*035□□#00++	09009-006*01++	2H	20	35	200	7	70	8	10	1.22	1.10	0.49	0.24
TC2H945*050□□#00++	09009-007*01++	2H	9.4	50	200	4.7	47	6	8	1.22	1.10	0.49	0.24

4-STACK				Parametric Specifications by Rating				Typical Ripple Data by Rating					
AVX P/N	DSCC P/N	Case	Cap µF	Volt V	ESR @ 100 kHz +25°C mΩ	DC Leakage (max) µA		Dissipation Factor (max) %		100kHz Ripple Current Rating		100kHz Ripple Voltage Rating	
						+25°C	+85°C	+25°C	+(85/125)°C	+25°C	+85°C	+25°C	+85°C
TC4H138*006□□#00++	09009-008*01++	4H	1320	6	25	79.2	792	10	12	4.90	4.41	1.96	0.12
TC4H887*010□□#00++	09009-009*01++	4H	880	10	25	88	880	10	12	4.90	4.41	1.96	0.12
TC4H407*015□□#00++	09009-010*01++	4H	400	15	31	60	600	10	12	4.38	3.94	1.75	0.14
TC4H197*020□□#00++	09009-011*01++	4H	188	20	38	37.6	376	8	10	4.00	3.60	1.60	0.15
TC4H137*025□□#00++	09009-012*01++	4H	132	25	43	33	330	8	10	3.74	3.36	1.49	0.16
TC4H406*035□□#00++	09009-013*01++	4H	40	35	100	14	140	8	10	2.45	2.20	0.98	0.24
TC4H196*050□□#00++	09009-014*01++	4H	18.8	50	100	9.4	94	6	8	2.45	2.20	0.98	0.24

6-STACK				Parametric Specifications by Rating				Typical Ripple Data by Rating					
AVX P/N	DSCC P/N	Case	Cap µF	Volt V	ESR @ 100 kHz +25°C mΩ	DC Leakage (max) µA		Dissipation Factor (max) %		100kHz Ripple Current Rating		100kHz Ripple Voltage Rating	
						+25°C	+85°C	+25°C	+(85/125)°C	+25°C	+85°C	+25°C	+85°C
TO6H208*006□□#00++	09009-015*01++	6H	1980	6	17	118.8	1188	10	12	7.35	6.61	2.94	0.12
TO6H138*010□□#00++	09009-016*01++	6H	1320	10	17	132	1320	10	12	7.35	6.61	2.94	0.12
TO6H607*015□□#00++	09009-017*01++	6H	600	15	21	90	900	10	12	6.57	5.92	2.63	0.14
TO6H287*020□□#00++	09009-018*01++	6H	282	20	25	56.4	564	8	10	6.00	5.40	2.40	0.15
TO6H207*025□□#00++	09009-019*01++	6H	198	25	28	49.5	495	8	10	5.67	5.10	2.27	0.16
TO6H606*035□□#00++	09009-020*01++	6H	60	35	67	21	210	8	10	3.67	3.31	1.47	0.24
TO6H286*050□□#00++	09009-021*01++	6H	28.2	50	67	14.1	141	6	8	3.67	3.31	1.47	0.24

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

NOTE: AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.



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