

TCH Low ESR Hermetic Series



SMD Low ESR Tantalum Capacitors with Conductive Polymer Electrode in Hermetic Package

PRELIMINARY
VERSION SUBJECT TO CHANGE
AVAILABLE 2013

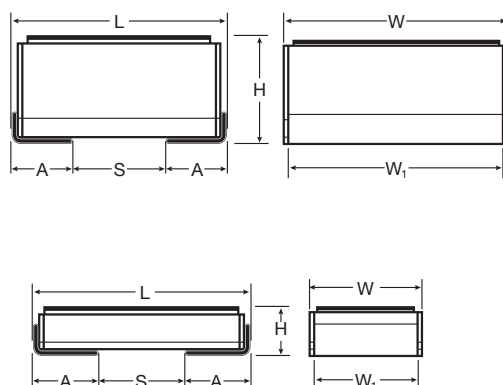


- Aerospace & Hi-Rel applications
- Low ESR conductive polymer electrode
- Ceramic case hermetic packaging
- Stability under humidity and ambient atmosphere exposure
- Large case sizes including CTC-21D provide high capacitance values
- Developed with ESA to suit aerospace applications

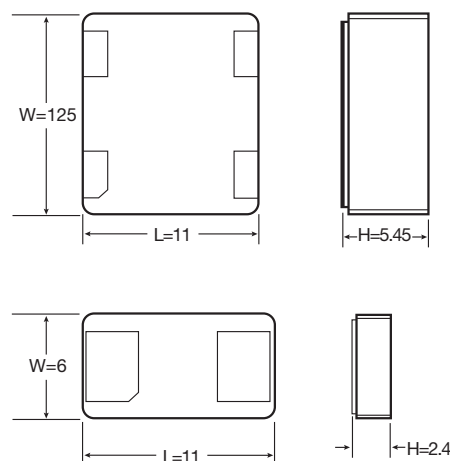
CASE DIMENSIONS: millimeters (inches)

Code	Type	L	W	H	W ₁	A	S
9 (CTC-21D)	J-lead	11.8 (0.465)	12.5 (0.492)	5.80 (0.228)	10.5 (0.413)	1.90 (0.075)	8.00 (0.315)
9 (CTC-21D)	Standard	11.0 (0.433)	12.5 (0.492)	5.45 (0.215)	10.5 (0.413)	1.50 (0.059)	8.00 (0.315)
I	J-lead	11.8 (0.465)	6.00 (0.236)	2.60 (0.102)	5.50 (0.217)	3.50 (0.138)	4.60 (0.181)
I	Standard	11.0 (0.433)	6.00 (0.236)	2.40 (0.094)	4.00 (0.157)	3.00 (0.118)	4.60 (0.181)

'J' Lead Termination



Undertab Termination



TECHNICAL SPECIFICATIONS

Technical Data: All technical data relate to an ambient temperature of +25°C

Capacitance Range: 1.5 μ F to 680 μ F

Capacitance Tolerance: $\pm 20\%$

Leakage Current DCL: 0.1CV

Rated Voltage (V _R)	$\leq +125^\circ\text{C}$	10	16	20	25	35	50	63	75	100	
Category Voltage (V _C)	$\leq +125^\circ\text{C}$	7	11	13.5	17	23.5	33	42	50	66	

Temperature Range: -55°C to +125°C

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HOW TO ORDER

AVX PART NUMBER

TCH	9	477	M	016	W	0100	J
Type	Case Size See table above	Capacitance Code pF code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow)	Tolerance M = ±20%	Rated DC Voltage 010 = 10Vdc 016 = 16Vdc 020 = 20Vdc 025 = 25Vdc 035 = 35Vdc 050 = 50Vdc 063 = 63Vdc 075 = 75Vdc 100 = 100Vdc	Packaging W = Waffle	ESR in mΩ	Termination J = 'J' lead U = Undertab

CAPACITANCE AND VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

Capacitance		Rated Voltage DC (V _R) at 85°C								
μF	Code	10V	16V	20V	25V	35V	50V	63V	75V	100V
1.5	155									I
2.2	225								I	
3.3	335						I	I	I	
4.7	475						I	I		
6.8	685						I			
10	106					I				
15	156			I	I	I				9
22	226		I	I	I	I			9	
33	336		I	I	I			9	9	
47	476		I	I			9	9		
68	686		I	I			9			
100	107		I		9	9				
150	157			9	9	9				
220	227	9	9	9	9					
330	337	9	9	9						
470	477	9	9							
680	687	9	9							

*Codes under development - subject to change

Engineering samples - please contact manufacturer