



# 75 V RATED TANTALUM CAPACITORS

T97



## High-Reliability Tantalum Capacitors

### KEY BENEFITS

- Highest available capacitance and voltage
- High-reliability screening options available, including Weibull grading
- Surge current testing options per MIL-PRF-55365
- State-of-the-art CV in a wide variety of case sizes
- Ultra-low ESR down to 0.015  $\Omega$
- Tin/lead (Sn/Pb) terminations standard; 100 % tin available

### APPLICATIONS

- Power management
- Military weapons systems including avionics, radar systems, and ruggedized electronics
- Commercial avionics

# Solid Tantalum Chip Capacitors TANTAMOUNT<sup>®</sup>, Hi-Rel COTS, Ultra-Low ESR, Conformal coated Case



### FEATURES

- High reliability: Weibull failure rate grading available
- Surge current testing per MIL-PRF-55365 options available
- Ultra-low ESR
- Tin/lead (Sn/Pb) termination available
- Compliant to RoHS directive 2002/95/EC



RoHS\*  
COMPLIANT

### PERFORMANCE CHARACTERISTICS

Operating Temperature: -55 °C to +85 °C  
(To +125 °C with voltage derating)  
Capacitance Range: 10 µF to 1500 µF

### ORDERING INFORMATION

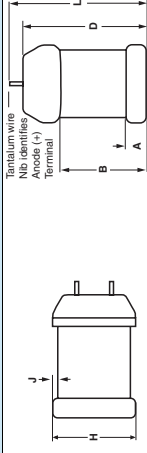
T97 TYPE	R CASE CODE	227 CAPACITANCE	K CAPACITANCE TOLERANCE	020 DC VOLTAGE RATINGS AT +85 °C	E TERMINATION PACKAGING (Available options are series dependent)	S RELIABILITY LEVEL	A SURGE CURRENT
		This is expressed in pF. The first two digits are the significant figures. The third is the number zeros to follow.	K = ± 10 % M = ± 20 %	This is expressed in volts. To complete the three-digit block, zeros precede the voltage rating. A "6R" indicates an "FR" (6R3 = 6.3 V).	E = Sn/Pb solder <sup>77</sup> (178 mm) reel L = Sn/Pb solder <sup>77</sup> (178 mm), 1/2 reel C = 100% tin <sup>77</sup> reel H = 100% tin <sup>77</sup> reel (178 mm), 1/2 reel	A = 1.0 % Weibull B = 0.1 % Weibull (t) S = 40 h established reliability	A = 10 cycles at +25 °C B = 10 cycles at -55 °C S = 10 cycles at 25 °C

Note  
(\*) Available on select ratings. See ratings table on page 2.

### RATINGS AND CASE CODE

µF	4 V	6.3 V	10 V	16 V	20 V	25 V	35 V	50 V	63 V	75 V
10									D	R
15								E/R	R	
22								R	F	
33								F		
47							R	Z/N*		
68										
100										
150										
220				E	R	M				
330					H/F					
470	V	E	E							
680	E	E	R	H*						
1000	E/R	R	F							
1500	R									
2200										

### DIMENSIONS in inches (millimeters)



CASE CODE	L	W	H	A	B	D (REF.)	J (MAX.)
E	0.287 ± 0.012 [7.3 ± 0.3]	0.173 ± 0.016 [4.4 ± 0.4]	0.157 ± 0.016 [4.0 ± 0.4]	0.051 ± 0.012 [1.3 ± 0.3]	0.180 ± 0.025 [4.6 ± 0.6]	0.253 [6.4]	0.004 [0.1]
F	0.287 ± 0.012 [7.3 ± 0.3]	0.238 ± 0.016 [6.0 ± 0.4]	0.187 ± 0.016 [4.7 ± 0.4]	0.051 ± 0.012 [1.3 ± 0.3]	0.180 ± 0.025 [4.6 ± 0.6]	0.243 [6.2]	0.004 [0.1]
R	0.287 ± 0.012 [7.3 ± 0.3]	0.238 ± 0.016 ± 0.024 [6.0 ± 0.4] ± 0.6	0.142 ± 0.016 [3.6 ± 0.4]	0.051 ± 0.012 [1.3 ± 0.3]	0.180 ± 0.025 [4.6 ± 0.6]	0.243 [6.2]	0.004 [0.1]
V	0.287 ± 0.012 [7.3 ± 0.3]	0.173 ± 0.016 [4.4 ± 0.4]	0.079 [2.0] Max.	0.051 ± 0.012 [1.3 ± 0.3]	0.180 ± 0.025 [4.6 ± 0.6]	0.253 [6.4]	0.004 [0.1]
Z	0.287 ± 0.012 [7.3 ± 0.3]	0.238 ± 0.016 [6.0 ± 0.4]	0.238 ± 0.016 [6.0 ± 0.4]	0.051 ± 0.012 [1.3 ± 0.3]	0.180 ± 0.025 [4.6 ± 0.6]	0.243 [6.2]	0.004 [0.1]
D	0.287 ± 0.012 [7.3 ± 0.3]	0.143 ± 0.016 [3.5] Max.	0.143 ± 0.016 [3.5] Max.	0.051 ± 0.012 [1.3 ± 0.3]	0.180 ± 0.025 [4.6 ± 0.6]	0.253 [6.4]	0.004 [0.1]
M	0.303 ± 0.012 [7.7 ± 0.3]	0.259 ± 0.016 [6.6 ± 0.4]	0.141 ± 0.016 [3.6 ± 0.4]	0.051 ± 0.012 [1.3 ± 0.3]	0.196 ± 0.025 [5.0 ± 0.6]	0.259 [6.6]	0.004 [0.1]
H	0.303 ± 0.012 [7.7 ± 0.3]	0.259 ± 0.016 [6.6 ± 0.4]	0.204 ± 0.016 [5.2 ± 0.4]	0.051 ± 0.012 [1.3 ± 0.3]	0.196 ± 0.025 [5.0 ± 0.6]	0.259 [6.6]	0.004 [0.1]
N	0.303 ± 0.012 [7.7 ± 0.3]	0.259 ± 0.016 [6.6 ± 0.4]	0.259 ± 0.016 [6.6 ± 0.4]	0.051 ± 0.012 [1.3 ± 0.3]	0.196 ± 0.025 [5.0 ± 0.6]	0.259 [6.6]	0.004 [0.1]

Note  
• The anode termination (D less B) will be a minimum of 0.012" (0.3 mm)  
• Pb containing terminations are not RoHS compliant, exemptions may apply

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