



TANTAMOUNT® Low ESR, Hi-Rel COTS, Built-In Fuse Conformal Coated



FEATURES

- High reliability; Weibull grading available
- Surge Current Testing per MIL-PRF-55365 options available



RoHS'

- · Standard and Low ESR options
- Terminations: SnPb, Standard. 100 % Tin available
- · Circuit protection for mission or safety critical systems
- Fuse characteristics: Guaranteed fuse protection at 9 A, 100 ms

PERFORMANCE/ELECTRICAL CHARACTERISTICS

Operating Temperature: - 55 °C to + 85 °C

(To + 125 °C with voltage derating)

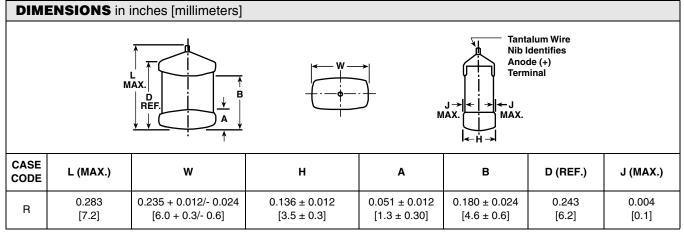
Capacitance Range: 10 μF to 680 μF

Capacitance Tolerance: ± 20 %, ± 10 % standard

Voltage Rating: 4 WVDC to 50 WVDC

OR	ORDERING INFORMATION									
T96	R	107	K	010	Е	Α	Α	S		
TYPE	CASE	CAPACITANCE	CAPACITANCE TOLERANCE	DC VOLTAGE RATING AT + 85 °C	TERMINATION AND PACKAGING	RELIABILITY LEVEL	SURGE CURRENT	ESR		
	See Ratings and Case Codes Table.	This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow.	K = ± 10 % M = ± 20 %	This is expressed in volts. To complete the three-digit block, zeros precede the voltage rating. A decimal point is indicated by an "R" (6R3 = 6.3 V)	volts. To complete the three-digit block, zeros precede the voltage rating. A decimal point is indicated by an "R" (178 mm) reels L: Sn/Pb Solder/7" (178 mm) ½ reel C: 100 % Tin/7" (178 mm) reels H: 100 % Tin/7"		A = 10 cycles at +25 °C B = 10 cycles at -55 °C/+85 °C S = 3 cycles at +25 °C	S = Std L = Low		

Note: (1) Weibull 0.1 % may not be available on all ratings. See detailed notes in ratings table or contact marketing for availability



Note: The anode termination (D less B) will be a minimum of 0.010" (0.25 mm)

^{*} Pb containing terminations are not RoHS compliant, exemptions may apply

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RATINGS AND CASE CODES								
μF	4 V	6.3 V	10 V	16 V	20 V	25 V	35 V	50 V
10								R
15							R	R
22							R	R
33						R	R	
47					R			
68				R		R		
100			R		R	R		
120			R		R			
150			R		R			
180		R		R				
220		R	R	R				
330	R		R	R				
390		R						
680		R	R					

Note:

• All ratings are preliminary, contact marketing for availability

STANDARD/EXTENDED RATINGS										
CAPACITANCE (μF)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE AT + 25 °C (μA)	MAX. DF AT + 25 °C 120 Hz (%)	STD.(S) MAX. ESR AT + 25 °C 100 kHz (Ω)	(PRELIMINARY) LOW (L) MAX. ESR AT + 25 °C 100 kHz				
4 WVDC AT + 85 °C, SURGE = 5.2 V 2.7 WVDC AT + 125 °C, SURGE = 3.4 V										
330	R	T96R337(1)004(2)(3)(4)(5)	13.2	8	0.160	0.110				
	6.3 WVDC AT + 85 °C, SURGE = 8 V 4 WVDC AT 125 °C, SURGE = 5 V									
180	R	T96R187(1)6R3(2)(3)(4)(5)	10.8	8	0.160	0.110				
220	R	T96R227(1)6R3(2)(3)(4)(5)	13.2	8	0.160	0.110				
390	R	T96R397(1)6R3(2)(3)(4)(5)	23.4	8	0.160	0.075				
680	R	T96R687(1)6R3(2)(3)(4)(5)	40.8	12	0.120	0.075				
	10	WVDC AT + 85 °C, SURGE = 13	3 V 7 WVDC A	AT 125 °C, SURGE	E = 8 V					
100	R	T96R107(1)010(2)(3)(4)(5)	10.0	8	0.170	0.105				
120	R	T96R127(1)010(2)(3)(4)(5)	12.0	8	0.170	0.100				
150	R	T96R157(1)010(2)(3)(4)(5)	15.0	8	0.160	0.095				
220	R	T96R227(1)010(2)(3)(4)(5)	22.0	8	0.160	0.085				
330	R	T96R337(1)010(2)(3)(4)(5)	33.0	8	0.160	0.085				
680	R	T96R687(1)010(2)(3)(4)S	68.0	14	0.120	N/A				
	16 WVDC AT + 85 °C, SURGE = 20 V 10 WVDC AT + 125 °C, SURGE = 12 V									
68	R	T96R686(1)016(2)(3)(4)(5)	10.9	6	0.630	0.125				
180	R	T96R187(1)016(2)(3)(4)(5)	28.8	8	0.160	0.085				
220	R	T96R227(1)016(2)(3)(4)(5)	35.2	8	0.150	0.085				
330	R	T96R337(1)016(2)(3)(4)(5)	52.8	14	0.140	0.085				
20 WVDC AT + 85 °C, SURGE = 26 V \dots 13 WVDC AT + 125 °C, SURGE = 16 V										
47	R	T96R476(1)020(2)(3)(4)(5)	9.4	6	0.230	0.140				
100	R	T96R107(1)020(2)(3)(4)S	20.0	8	0.170	N/A				
120	R	T96R127(1)020(2)(3)(4)(5)	24.0	8	0.170	0.110				
150	R	T96R157(1)020(2)(3)(4)(5)	30.0	8	0.170	0.105				

Notes:

- All ratings are preliminary, contact factory for availability
- (1) Capacitance Tolerance: K, M
- (2) Termination and Packaging: C, E, H, L
- (3) Reliability Level: A, B, S, Z
- (4) Surge Current: A, B, S
- (5) ESR: L, S





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STANDARD/EXTENDED RATINGS									
25 WVDC AT + 85 °C, SURGE = 32 V 17 WVDC AT + 125 °C, SURGE = 20 V									
33	R	T96R336(1)025(2)(3)(4)(5)	8.3	6	0.280	0.160			
68	R	T96R686(1)025(2)(3)(4)(5)	17.0	6	0.230	0.125			
100	R	T96R107(1)025(2)(3)(4)(5)	25	8	0.230	0.120			
35 WVDC AT + 85 °C, SURGE = 46 V 23 WVDC AT + 125 °C, SURGE = 28 V									
15	R	T96R156(1)035(2)(3)(4)(5)	5.3	6	0.410	0.220			
22	R	T96R226(1)035(2)(3)(4)(5)	7.7	6	0.310	0.270			
33	R	T96R336(1)035(2)(3)(4)(5)	11.6	6	0.310	0.230			
50 WVDC AT + 85 °C, SURGE = 65 V 33 WVDC AT + 125 °C, SURGE = 40 V									
10	R	T96R106(1)050(2)(3)(4)(5)	5.0	6	0.680	0.530			
15	R	T96R156(1)050(2)(3)(4)(5)	7.5	6	0.430	0.380			
22	R	T96R226(1)050(2)(3)(4)(5)	11.0	6	0.420	0.330			

Notes:

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- (1) Capacitance Tolerance: K, M
- (2) Termination and Packaging: C, E, H, L
- (3) Reliability Level: A, B, S, Z
- (4) Surge Current: A, B, S
- (5) ESR: L, S



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