TANTALUM CAPACITORS

T95 Series

Tantamount® Hi-Rel COTS, Conformal-Coated Tantalum Capacitors

KEY BENEFITS

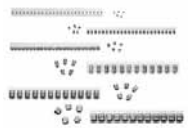
- Hi-Rel version of Vishay's popular 195D, 595D/594D series of commercial capacitors
- High-reliability screening options available, including Weibull grading
- Surge current testing options per MIL-PRF-55365
- State-of-the-art CV in a wide array of case sizes
- Tin/lead (Sn/Pb) terminations standard; 100 % tin available

APPLICATIONS

- Aerospace
- Military
- Avionics
- Medical

Datasheet is available on our web site at www.vishay.com
for T95 Series - http://www.vishay.com/doc?40081

Solid Tantalum Chip Capacitors, TANTAMOUNT®, Hi-Rel COTS, Conformal Coated Case



FEATURES

- High reliability; Weibull grading available
- Surge Current Testing per MIL-PRF-55365 options available
- Standard and Low ESR options
- Terminations: SnPb, Standard. 100 % Tin available
- Compliant to RoHS directive 2002/95/EC

Pb-free Available

RoHS* COMPLIANT

PERFORMANCE/ELECTRICAL CHARACTERISTICS

Operating Temperature: - 55 °C to + 85 °C
(To + 125 °C with voltage derating)
Capacitance Range: 0.1 µF to 680 µF

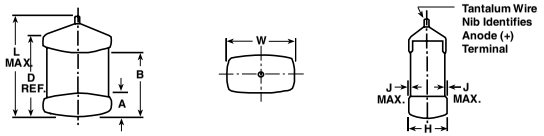
Capacitance Tolerance: ± 20 %, ± 10 % standard
Voltage Rating: 4 WVDC to 50 WVDC

ORDERING INFORMATION

T95 TYPE	D CASE CODE	107 CAPACITANCE	K CAPACITANCE TOLERANCE	010 DC VOLTAGE RATING AT + 85 °C	E TERMINATION AND PACKAGING	A RELIABILITY LEVEL	A SURGE CURRENT	S 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).	**E: Sn/Pb Solder/7" (178 mm) reels** L: Sn/Pb Solder/7" (178 mm) ½ reel C: 100 % Tin/7" (178 mm) reels H: 100 % Tin/7" (178 mm) ½ reel	**A = 1.0 % Weibull** B = 0.1 % Weibull (1) S = Hi-Rel Standard Burn-in Z = Non-Established Reliability	**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

DIMENSIONS in inches [millimeters]



CASE CODE	L (MAX.)	W	H	A	B	D (REF.)	J (MAX.)
A	0.146 [3.7]	0.072 + 0.012 [1.8 + 0.3]	0.056 + 0.012 [1.4 + 0.3]	0.031 ± 0.012 [0.80 ± 0.30]	0.085 ± 0.016 [2.2 ± 0.4]	0.115 [2.9]	0.004 [0.1]
B	0.158 [4.0]	0.110 + 0.012 - 0.016 [2.8 + 0.3 - 0.4]	0.075 + 0.012 - 0.024 [1.9 + 0.3 - 0.6]	0.031 ± 0.012 [0.80 ± 0.30]	0.097 ± 0.016 [2.5 ± 0.4]	0.138 [3.5]	0.004 [0.1]
C	0.281 [7.1]	0.126 ± 0.012 [3.2 ± 0.3]	0.098 ± 0.012 [2.5 ± 0.3]	0.051 ± 0.012 [1.3 ± 0.30]	0.180 ± 0.024 [4.6 ± 0.6]	0.236 [6.0]	0.004 [0.1]
D	0.293 [7.5]	0.170 ± 0.012 [4.3 ± 0.3]	0.110 ± 0.012 [2.8 ± 0.3]	0.051 ± 0.012 [1.3 ± 0.30]	0.180 ± 0.024 [4.6 ± 0.6]	0.253 [6.4]	0.004 [0.1]
R	0.283 [7.2]	0.235 + 0.012/- 0.024 [6.0 + 0.3/- 0.6]	0.136 ± 0.012 [3.5 ± 0.3]	0.051 ± 0.012 [1.3 ± 0.30]	0.180 ± 0.024 [4.6 ± 0.6]	0.243 [6.2]	0.004 [0.1]
S	0.143 [3.63]	0.072 ± 0.008 [1.83 ± 0.2]	0.048 ± 0.008 [1.22 ± 0.2]	0.023 ± 0.010 [0.58 ± 0.25]	0.085 ± 0.015 [2.16 ± 0.37]	0.115 [2.9]	0.004 [0.1]

Notes
• 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

RATINGS AND CASE CODES

µF	4 V	6.3 V	10 V	16 V	20 V	25 V	35 V	50 V
0.10							S	
0.15							S	
0.22							S	
0.33							S	
0.47							S	
0.68						S	S	
1.0						S	S	
1.5					S	S	V	
2.2				S	S	V	X	
3.3			S	S	V	X	Y	
4.7		S	S	V	X	X	Z	C
6.8	S	S	V	A/X	X	Y	Z	D
10	S	V	X	X	Y	C/Y	Z	R
15	V	X	B/X	B/Y	Z	Z	D/R	R
22	X	X	Y	Z	Z		R	R
33	X		Z	Z		D/R	R	
47	Y	Y	Z		R	D		
68	Y			R		R		
100	Z	Z	R	C/D	R	R		
120			R		R			
150			D/R	D	R			
180		R		R				
220		R	D/R	R				
270	D							
330	R		R	R				
390		R						
470		D						
680		R	R					

Revision 30-Apr-09