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 Tasting per MIL-PRF-55365 options available
- Standard and Low ESR options
- Terminations: SnPb, Standard. 100 % Tin available

Pb-free Available

RoHS* COMPLIANT

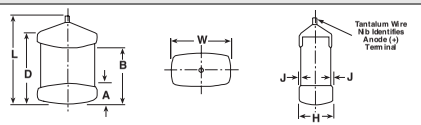
PERFORMANCE/ELECTRICAL CHARACTERISTICS

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	D	107	K	010	E	A	A	S
TYPE	CASE CODE	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 volts).	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 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 Z = none	S = Std L = Low

DIMENSIONS in inches [millimeters]



CASE CODE	L (Max.)	W	H	A	B	D (Ref.)	J (Max.)
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 [6.0 ± 0.3]	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]
V	0.143 [3.63]	0.104 ± 0.010 [2.65 ± 0.25]	0.051 ± 0.010 [1.3 ± 0.25]	0.023 ± 0.010 [0.58 ± 0.25]	0.085 ± 0.015 [2.16 ± 0.37]	0.115 [2.9]	0.004 [0.1]
X	0.285 [7.24]	0.104 ± 0.010 [2.65 ± 0.25]	0.051 ± 0.010 [1.3 ± 0.25]	0.040 ± 0.020 [1.0 ± 0.5]	0.200 ± 0.027 [5.08 ± 0.69]	0.243 [6.2]	0.004 [0.1]
Y	0.285 [7.24]	0.104 ± 0.010 [2.65 ± 0.25]	0.069 ± 0.010 [1.75 ± 0.25]	0.040 ± 0.020 [1.0 ± 0.5]	0.200 ± 0.027 [5.08 ± 0.69]	0.243 [6.2]	0.004 [0.1]
Z	0.285 [7.24]	0.104 ± 0.010 [2.65 ± 0.25]	0.104 ± 0.010 [2.65 ± 0.25]	0.040 ± 0.020 [1.0 ± 0.5]	0.200 ± 0.027 [5.08 ± 0.69]	0.243 [6.2]	0.004 [0.1]

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.

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	X	X	Y	Z	D
10	S	V	X	X	Y	C/Y	Z	R
15	V	X	X	B/X	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			
68	Y			R		R		
100	Z	Z	R	C/D				
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						

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