



TANTALUM CAPACITORS

T95 Series



Tantamount[®] High Reliability Capacitor

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



RoHS*
COMPLIANT

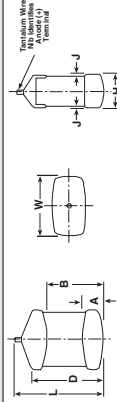
PERFORMANCE/ELECTRICAL CHARACTERISTICS

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 CODE	D CASE CODE	107 CAPACITANCE TOLERANCE	K CAPACITANCE TOLERANCE	010 DC VOLTAGE RATING AT +85 °C	E TERMINATION AND PACKAGING	A RELIABILITY LEVEL	A SURGE CURRENT	S ESR
See page 10 and 11 for Case Codes Table.		This is expressed in the first two digits and the significant figures. The third is the number of zeros to follow.	K = ± 10 % M = ± 20 %	This is expressed in three-digit black zeros precede the voltage rating. A decimal point is indicated by an "R" (e.g.R = 6.3 volts).	E: Sn/Pb Solder77 (178 mm) 1/2 reel L: Sn/Pb Solder77 (178 mm) 1/2 reel H: 100 % Tin77 (176 mm) 1/2 reel	A: 1.0 % Weibull S = Hi-Rel Standard Burn-in C: 100 % Tin77 Z = Non-Reliability	A = 10 cycles at Weibull B = 10 cycles at -55 °C/+ 85 °C S = 3 cycles at +25 °C Z = none	S = S80 L = Low

DIMENSIONS in inches [millimeters]



CASE CODE	L (Max.)	W	H	A	B	D (Ref.)	J (Max.)
B	0.109 [2.76]	0.110 ± 0.012 - 0.016 [2.8 ± 0.32 - 0.4]	0.075 ± 0.012 - 0.024 [1.9 ± 0.32 - 0.6]	0.030 ± 0.010 [0.76 ± 0.25]	0.027 ± 0.016 [0.69 ± 0.41]	0.38 [9.65]	0.004 [0.10]
C	0.291 [7.41]	0.123 ± 0.012 [3.1 ± 0.31]	0.095 ± 0.012 [2.4 ± 0.31]	0.051 ± 0.012 [1.3 ± 0.30]	0.169 ± 0.024 [4.3 ± 0.61]	0.30 [7.62]	0.004 [0.10]
D	0.293 [7.5]	0.176 ± 0.012 [4.5 ± 0.31]	0.110 ± 0.012 [2.8 ± 0.31]	0.051 ± 0.012 [1.3 ± 0.30]	0.180 ± 0.024 [4.6 ± 0.61]	0.253 [6.41]	0.004 [0.10]
R	0.293 [7.2]	0.235 ± 0.012 [6.0 ± 0.31]	0.136 ± 0.012 [3.5 ± 0.31]	0.051 ± 0.012 [1.3 ± 0.30]	0.180 ± 0.024 [4.6 ± 0.61]	0.243 [6.21]	0.004 [0.10]
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 [2.91]	0.004 [0.10]
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 [2.91]	0.004 [0.10]
X	0.265 [6.724]	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 [6.21]	0.004 [0.10]
Y	0.265 [6.724]	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 [6.21]	0.004 [0.10]
Z	0.265 [6.724]	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 [6.21]	0.004 [0.10]

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	S	
1.5			S	S	S	S	V	
2.2			S	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
33	X	X	Z	Z		D/R		R
47	Y	Y	Z		R			
68	Y	Z	R	R	R			
100	Z	Z	R	C/D				
120			R	R	R			
150			D/R	D	R			
180			R	R	R			
220			R	D/R	R			
270	D							
330	R		R	R				
390	R	R						
470		D						
680		R						

Revision 28-Jun-06

NOTICE: Specifications of the products displayed herein are subject to change without notice. Vishay Intertechnology, Inc. or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies. Information contained herein is intended to provide a product description only. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Vishay's terms and conditions of sale for such products, Vishay assumes no liability whatsoever and disclaims any express or implied warranty, relating to sale and/or use of Vishay products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right. The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Vishay for any damages resulting from such improper use or sale.

For technical questions, contact tantalum@vishay.com