

Tantamount High Reliability Tantalum Capacitors



KEY BENEFITS

- High-reliability 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

RESOURCES

- Datasheet: <http://www.vishay.com/doc?40081>
- Tantalum product portfolio: <http://www.vishay.com/capacitors/tantalum/>
- FIT calculator: <http://www.vishay.com/capacitors/tantalum/capacitors/tantalum/tantalum-wet/tantalum-reliability-calculator-list/>
- Technical questions: contact_tantalum@vishay.com
- Sales contacts: <http://www.vishay.com/doc?99914>

One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components





CAPACITORS

T95 Series Tantalum



Capacitor - Tantamount High Reliability Tantalum Capacitors

RATINGS AND CASE CODES								
μF	4 V	6.3 V	10 V	16 V	20 V	25 V	35 V	50 V
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		
4.7		S	S	V	X		Y	C
6.8	S	S	V	A/X	X	Y	Z	C/D
10	S	V	X	X	Y	C/Y	Z	
15	V	X	B/X	B/Y	Z	Z	R	R
22	X	X	Y	B/Z	Z		R	R
33	X		Z	Z		D/R	R	
47	Y	Y	Z		R	D/R	R	
68	Y	Z		R		D/R		
100	Z		R	C/D	R	R		
120			D/R		R			
150			D/R	D	R			
180				R	R			
220			D/R	R				
270	D							
330	R	C	D/R	R				
390		R						
470		D	R					
680		R	R					

DIMENSIONS in inches [millimeters]							
CASE CODE	L (MAX.)	W	H	A	B	D (REF.)	J (MAX.)
A	0.146 [3.7]	0.071 ± 0.012 [1.8 ± 0.3]	0.056 ± 0.012 [1.4 ± 0.3]	0.031 ± 0.012 [0.8 ± 0.3]	0.085 ± 0.016 [2.2 ± 0.40]	0.114 [2.9]	0.004 [0.10]
B	0.157 [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 [0.8 ± 0.3]	0.098 ± 0.016 [2.5 ± 0.40]	0.138 [3.5]	0.004 [0.10]
C	0.280 [7.1]	0.126 ± 0.012 [3.2 ± 0.3]	0.098 ± 0.012 [2.5 ± 0.3]	0.051 ± 0.012 [1.3 ± 0.3]	0.181 ± 0.024 [4.6 ± 0.60]	0.236 [6.0]	0.004 [0.10]
D	0.295 [7.5]	0.169 ± 0.012 [4.3 ± 0.3]	0.110 ± 0.012 [2.8 ± 0.3]	0.051 ± 0.012 [1.3 ± 0.3]	0.181 ± 0.024 [4.6 ± 0.60]	0.252 [6.0]	0.004 [0.10]
R	0.283 max. [7.20 max.]	0.236 ± 0.012/- 0.024 [6.0 + 0.30/- 0.60]	0.138 ± 0.012 [3.50 ± 0.30]	0.051 ± 0.012 [1.30 ± 0.30]	0.181 ± 0.024 [4.60 ± 0.60]	0.244 [6.20]	0.004 [0.10]
S	0.143 max. [3.63 max.]	0.072 ± 0.008 [1.83 ± 0.20]	0.048 ± 0.008 [1.22 ± 0.20]	0.023 ± 0.010 [0.58 ± 0.25]	0.085 ± 0.015 [2.16 ± 0.37]	0.114 [2.90]	0.004 [0.10]
V	0.143 max. [3.63 max.]	0.104 ± 0.010 [2.65 ± 0.25]	0.051 ± 0.010 [1.30 ± 0.25]	0.023 ± 0.010 [0.58 ± 0.25]	0.085 ± 0.015 [2.16 ± 0.37]	0.114 [2.90]	0.004 [0.10]
X	0.285 max. [7.24 max.]	0.104 ± 0.010 [2.65 ± 0.25]	0.051 ± 0.010 [1.30 ± 0.25]	0.039 ± 0.020 [1.00 ± 0.50]	0.200 ± 0.027 [5.08 ± 0.69]	0.244 [6.20]	0.004 [0.10]
Y	0.285 max. [7.24 max.]	0.104 ± 0.010 [2.65 ± 0.25]	0.069 ± 0.010 [1.75 ± 0.25]	0.039 ± 0.020 [1.00 ± 0.50]	0.200 ± 0.027 [5.08 ± 0.69]	0.244 [6.20]	0.004 [0.10]
Z	0.285 max. [7.24 max.]	0.104 ± 0.010 [2.65 ± 0.25]	0.104 ± 0.010 [2.65 ± 0.25]	0.039 ± 0.020 [1.00 ± 0.50]	0.200 ± 0.027 [5.08 ± 0.69]	0.244 [6.20]	0.004 [0.10]

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

ORDERING INFORMATION

See datasheet for ordering information table: <http://www.vishay.com/doc?40081>