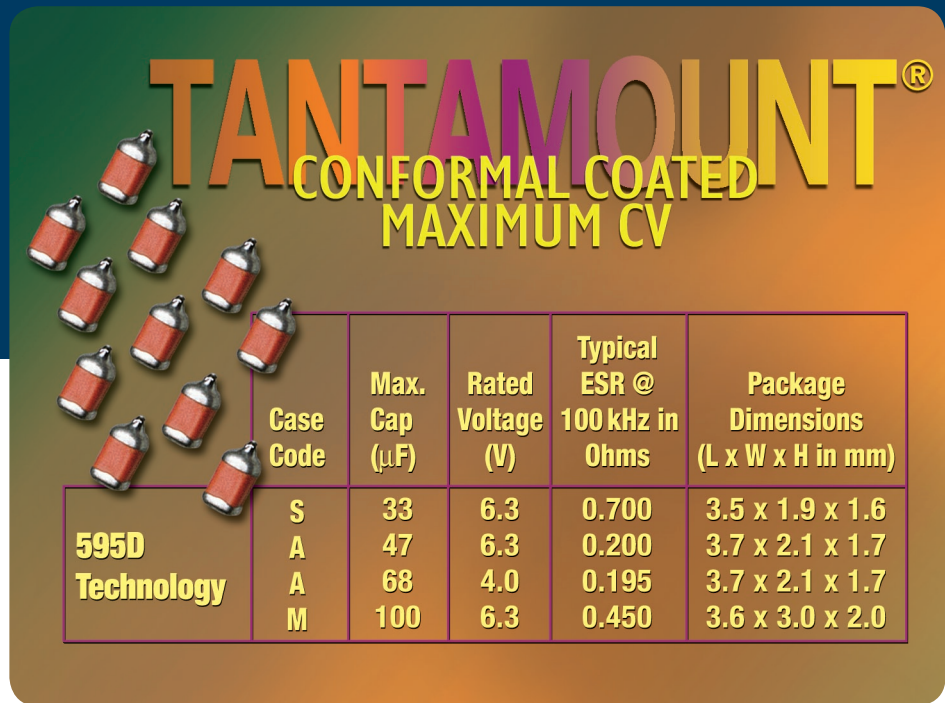




TANTALUM CAPACITORS

595D



TANTAMOUNT[®]

CONFORMAL COATED
MAXIMUM CV

	Case Code	Max. Cap (μF)	Rated Voltage (V)	Typical ESR @ 100 kHz in Ohms	Package Dimensions (L x W x H in mm)
595D Technology	S	33	6.3	0.700	3.5 x 1.9 x 1.6
	A	47	6.3	0.200	3.7 x 2.1 x 1.7
	A	68	4.0	0.195	3.7 x 2.1 x 1.7
	M	100	6.3	0.450	3.6 x 3.0 x 2.0

New Small-Case-Size Tantalum Capacitors Provide Capacitance up to 100 μF

KEY BENEFITS

- 595D High-CV, conformal-coated tantalum capacitors now available in “S” case (33 μF at 6.3 V) and “M” case (100 μF at 6.3 V)
- Footprint compatible with “A” case and “B” case molded chip capacitors
- Low ESR for “S” and “M” case packages
- Lead (Pb)-free terminations are standard
- Tin/Lead (Sn/Pb) or gold terminations are available upon request

Solid Tantalum Chip Capacitors Tantamount® Conformal Coated, Maximum CV

FEATURES

- New extended range offerings.
- Large capacitance rating range.
- Terminations: Lead (Pb)-Free (2) standard.
- 8mm, 12mm tape and reel packaging available per EIA 481-1 and reeling per IEC 286-3. 7" [178mm] standard. 13" [330mm] available.
- Case code compatibility with EIA 535BAAC and CECC 30801 molded chips.

RATINGS AND CASE CODES

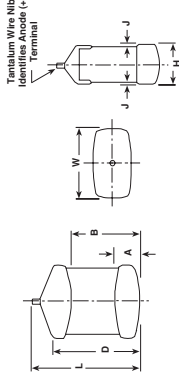
µF	4 V		6.3 V		10 V		16 V		20 V		25 V		35 V		50 V	
	Std.	Ext.	Std.	Ext.	Std.	Ext.	Std.	Ext.	Std.	Ext.	Std.	Ext.	Std.	Ext.	Std.	Ext.
0.10																
0.15																
0.22																
0.33																
0.47																
0.68																
1.0																
1.5																
2.2																
3.3																
4.7																
6.8																
10																
15																
22																
33																
47																
68																
100																
120																
150																
180																
220																
270																
330																
390																
470																
560																
680																
1000																
1500																

*Preliminary Values, contact factory for availability.

ORDERING INFORMATION

595D	106	X0	010	A	2	T
TYPE	CAPACITANCE	CAPACITANCE TOLERANCE	DC VOLTAGE RATING @ +85°C	CASE CODE	TERMINATION	PACKAGING
<p>This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow.</p> <p>X0 = ±20% X9 = ±10%</p> <p>This is expressed in volts. To complete the three-digit block, zeros precede the voltage rating. A decimal point is implied by an "R" (RFG = 6.3 volts).</p> <p>See Ratings and Case Codes Table.</p> <p>2 = Solderable Coating. 4 = Gold 8 = Solder Plated (60/40) Special Order.</p> <p>T = Tape and Reel 7" [178mm] Reel W = 13" [330mm] Reel See Tape and Reel specifications.</p>						
<p>NOTE: Preferred Tolerances and reel sizes are in bold. We reserve the right to supply higher voltage ratings and lighter capacitance tolerance capacitors in the same case size. Voltage substitutions will be marked with the higher voltage rating.</p>						

DIMENSIONS in inches [millimeters]



CASE CODE	L (Max.)	W	H	A	B	D (Ref.)	J (Max.)
T	0.087 [2.2]	0.045 ± 0.012 [1.1 ± 0.3]	0.045 ± 0.012 [1.1 ± 0.3]	0.016 ± 0.008 [0.4 ± 0.2]	0.042 ± 0.010 [1.07 ± 0.25]	0.063 [1.6]	0.004 [0.1]
S	0.126 ± 0.012 [3.2 ± 0.3]	0.083 ± 0.012 [2.1 ± 0.3]	0.082 ± 0.012 [2.1 ± 0.3]	0.031 ± 0.012 [0.80 ± 0.30]	0.078 ± 0.012 [2.0 ± 0.3]	0.086 [2.2]	0.004 [0.1]
A	0.156 [3.7]	0.116 ± 0.012 [2.9 ± 0.3]	0.116 ± 0.012 [2.9 ± 0.3]	0.031 ± 0.012 [0.80 ± 0.30]	0.078 ± 0.012 [2.0 ± 0.3]	0.086 [2.2]	0.004 [0.1]
B	0.158 [4.0]	0.110 ± 0.012 [2.8 ± 0.4]	0.075 ± 0.012 [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]	0.088 ± 0.012 [2.3 ± 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]
G	0.285 ± 0.016 [7.2 ± 0.4]	0.136 ± 0.016 [3.5 ± 0.4]	0.087 [2.2] Max	0.051 ± 0.012 [1.3 ± 0.30]	0.180 ± 0.024 [4.6 ± 0.6]	0.236 [6.0]	0.004 [0.1]
H	0.205 ± 0.016 [5.2 ± 0.4]	0.181 ± 0.016 [4.6 ± 0.4]	0.170 ± 0.012 [4.3 ± 0.3]	0.051 ± 0.012 [1.3 ± 0.30]	0.133 ± 0.016 [3.4 ± 0.4]	0.173 [4.4]	0.004 [0.1]
D	0.293 [7.4]	0.170 ± 0.012 [4.3 ± 0.3]	0.170 ± 0.012 [4.3 ± 0.3]	0.051 ± 0.012 [1.3 ± 0.30]	0.180 ± 0.024 [4.6 ± 0.6]	0.263 [6.7]	0.004 [0.1]
M	0.135 ± 0.012 [3.3 ± 0.3]	0.235 ± 0.012 [6.0 ± 0.3]	0.17 ± 0.012 [4.3 ± 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]
R	0.283 [7.2]	0.235 ± 0.012 [6.0 ± 0.3]	0.138 ± 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]

Note: The anode termination (D less B) will be a minimum of 0.010" [0.3mm]. T Case = .005" [0.13mm] minimum.

REFLOW SOLDER PADS* in inches [millimeters]

CASE CODE	WIDTH (A)	PAD METALLIZATION (B)	SEPARATION (C)
T	0.055 [1.5]	0.030 [0.7]	0.025 [0.6]
S	0.067 [1.7]	0.032 [0.8]	0.043 [1.1]
A	0.82 [21]	0.065 [1.7]	0.050 [1.3]
B	0.120 [3.0]	0.065 [1.7]	0.065 [1.7]
C	0.136 [3.5]	0.090 [2.3]	0.120 [3.1]
D	0.180 [4.6]	0.090 [2.3]	0.145 [3.7]
G	0.156 [4.0]	0.090 [2.3]	0.082 [2.1]
H	0.196 [5.0]	0.090 [2.3]	0.082 [2.1]
M	0.110 [2.8]	0.013 [1.1]	0.052 [1.3]
R	0.245 [6.3]	0.090 [2.3]	0.145 [3.7]

* Pads for B, C and D case codes are otherwise pad compatible with Type 293D, B, C and D case codes respectively.

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