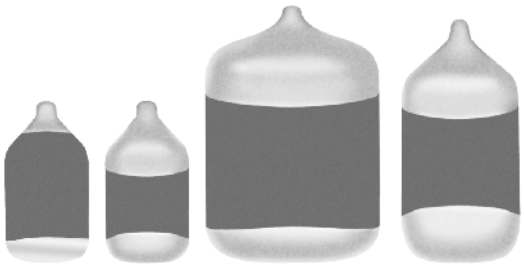
Solid Tantalum Chip Capacitors
TANTAMOUNT®, Low Profile, Conformal Coated, Maximum CV



P case top | P case bottom | B and T cases | Q, S and A cases | Images not to scale

FEATURES

- **P case offers single-sided lead (Pb)-free terminations**
- Wraparound lead (Pb)-free terminations: Q, S, A, B and T
- Low Impedance
- 8 mm and 12 mm tape and reel packaging available per EIA-481-1 and reeling per IEC 286-3
  7" [178 mm] standard
  13" [330 mm] available

Pb-free

RoHS COMPLIANT

PERFORMANCE CHARACTERISTICS

Operating Temperature: - 55 °C to + 85 °C
(To + 125 °C with voltage derating)
Note: Refer to Doc. 40088

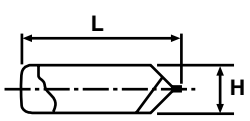
Capacitance Range: 2.2 µF to 220 µF
Capacitance Tolerance: ± 10 %, ± 20 % standard
Voltage Rating: 4 WVDC to 35 WVDC

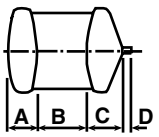
ORDERING INFORMATION

572D	336	X0	6R3	A	2	T
TYPE	CAPACITANCE	CAPACITANCE TOLERANCE	DC VOLTAGE RATING AT + 85 °C	CASE CODE	TERMINATION	REEL SIZE AND PACKAGING
	This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow.	**X0 = ± 20 %** X9 = ± 10 %	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).	See Ratings and Case Codes Table.	**2 = 100 % Tin** 4 = Gold Plated	T = Tape and Reel 7" [178 mm] Reel W = 13" [330 mm] Reel

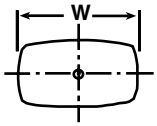
Note: Preferred Tolerance and reel sizes are in bold.
We reserve the right to supply higher voltage ratings and tighter capacitance tolerance capacitors in the same case size.

DIMENSIONS in inches [millimeters]

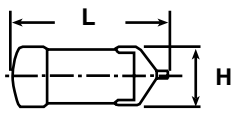


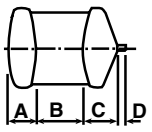


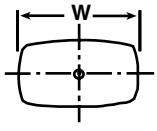
Single-side electrodes (Both electrodes at bottom side only)



CASE CODE	L (Max.)	W	H	A	B	C	D (Ref.)
P	0.087 ± 0.012 [2.2 ± 0.3]	0.049 ± 0.012 [1.25 ± 0.3]	0.039 ± 0.008 [1.0 ± 0.2]	0.024 ± 0.012 [0.6 ± 0.3]	0.031 ± 0.012 [0.8 ± 0.3]	0.031 ± 0.012 [0.8 ± 0.3]	0.008 [0.2]







CASE CODE	L (Max.)	W	H	A	B	C	D (Ref.)
Q	0.126 ± 0.008 [3.2 ± 0.2]	0.063 ± 0.008 [1.6 ± 0.2]	0.031 ± 0.008 [0.8 ± 0.2]	0.031 ± 0.008 [0.8 ± 0.2]	0.047 ± 0.008 [1.2 ± 0.2]	0.031 ± 0.008 [0.8 ± 0.2]	0.008 [0.2]
S	0.126 ± 0.012 [3.2 ± 0.3]	0.063 ± 0.012 [1.6 ± 0.3]	0.039 ± 0.008 [1.0 ± 0.2]	0.031 ± 0.012 [0.8 ± 0.3]	0.047 ± 0.012 [1.2 ± 0.3]	0.031 ± 0.012 [0.8 ± 0.3]	0.008 [0.2]
A	0.126 ± 0.012 [3.2 ± 0.3]	0.067 ± 0.012 [1.7 ± 0.3]	0.05 ± 0.012 [1.3 ± 0.3]	0.031 ± 0.012 [0.8 ± 0.3]	0.047 ± 0.012 [1.2 ± 0.3]	0.031 ± 0.012 [0.8 ± 0.3]	0.008 [0.2]
B	0.130 ± 0.012 [3.3 ± 0.3]	0.106 ± 0.012 [2.7 ± 0.3]	0.066 ± 0.012 [1.7 ± 0.3]	0.031 ± 0.012 [0.8 ± 0.3]	0.047 ± 0.012 [1.2 ± 0.3]	0.043 ± 0.012 [1.1 ± 0.3]	0.008 [0.2]
T	0.138 ± 0.008 [3.5 ± 0.2]	0.106 ± 0.008 [2.7 ± 0.2]	0.039 ± 0.008 [1.0 ± 0.2]	0.031 ± 0.008 [0.8 ± 0.2]	0.047 ± 0.008 [1.2 ± 0.2]	0.043 ± 0.008 [1.1 ± 0.2]	0.008 [0.2]

RATINGS AND CASE CODE

µF	4 V	6.3 V	10 V	16 V	25 V	35 V
	STD	STD	STD	STD	STD	STD
2.2					Q	
4.7					A/S	B*
6.8						
10			P		A	
15						
22				A/B/T*/S*		
33	P	A/P/Q/S	A/S*			
47		Q/S	A*			
68		S				
100		A/B/T	B			
220	B/B**/T	B				

* Contact factory for availability

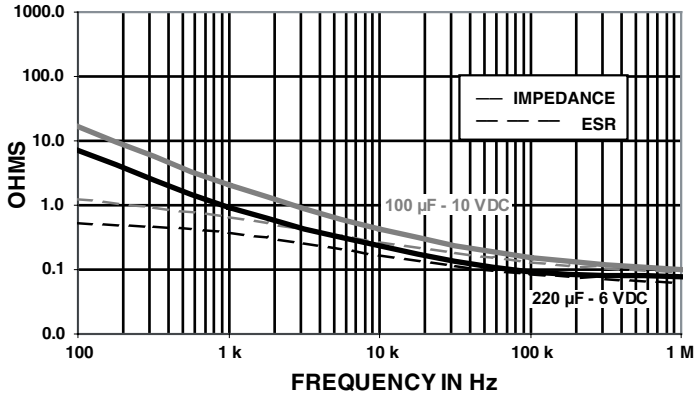
STANDARD/EXTENDED RATINGS

CAPACITANCE (µF)	CASE CODE	PART NUMBER	MAX. DCL AT + 25 °C (µA)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. ESR AT + 25 °C 100 kHz (Ohms)	MAX. RIPPLE 100 kHz Irms (Amps)
4 WVDC AT + 85 °C, SURGE = 5.2 V . . . 2.7 WVDC AT + 125 °C, SURGE = 3.4 V						
33	P	572D336X_004P2_001**	1.32	14	1.5	0.13
220	B	572D227X_004B2_	8.8	16	0.2	0.63
220	B	572D227X_004B2_001**	8.8	16	0.2	0.63
220	T	572D227X_004T2_	8.8	26	0.6	0.37
220*	S	572D227X_004S2_*	8.8*	25*	0.8*	0.26*
6.3 WVDC AT 85 °C, SURGE = 8 V . . . 4 WVDC AT + 125 °C, SURGE = 5 V						
33	A	572D336X_6R3A2_	2.1	8	0.8	0.29
33	P	572D336XO6R3P2_	2.1	14	1.5	0.13
33	Q	572D336X_6R3Q2_	2.1	10	2.0	0.17
33	S	572D336X_6R3S2_	2.1	10	1.0	0.24
47	Q	572D476X_6R3Q2_	3.0	10	1.1	0.22
47	S	572D476X_6R3S2_	3.0	10	0.9	0.25
68	S	572D686X06R3S2_	4.3	12	0.9	0.26
100	A	572D107X_6R3A2_	6.3	14	0.5	0.36
100	B	572D107X_6R3B2_	6.3	14	0.4	0.45
100	T	572D107X_6R3T2_	6.3	14	0.5	0.36
220	B	572D227X_6R3B2_	13.9	16	0.2	0.63
10 WVDC AT + 85 °C, SURGE = 13 V . . . 7 WVDC AT + 125 °C, SURGE = 8 V						
10	P	572D106X_010P2_	1.0	8	3.0	0.09
33	A	572D336X_010A2_	3.3	10	0.8	0.29
33*	S*	572D336X_010S2_*	3.3*	10*	1.1*	0.23*
47*	A*	572D476X_010A2_*	4.7*	10*	0.8*	0.28*
100	B	572D107X_010B2_	10	14	0.4	0.45
16 WVDC AT + 85 °C, SURGE = 20 V . . . 10 WVDC AT + 125 °C, SURGE = 12 V						
22	A	572D226X_016A2_	3.5	8	1.4	0.22
22	B	572D226X_016B2_	3.5	6	0.5	0.45
22*	S*	572D226X_016S2_*	3.5*	8*	1.4*	0.22*
22*	T*	572D226X_016T2_*	3.5*	8*	1.4*	0.24*
25 WVDC AT + 85 °C, SURGE = 32 V . . . 17 WVDC AT + 125 °C, SURGE = 20 V						
2.2	Q	572D225X_025Q2_	0.65	6	5.0	0.10
4.7	A	572D475X_025A2_	1.2	6	2.0	0.18
4.7	S	572D475X_025S2_	1.2	8	4.0	0.12
10	A	572D106X_025A2_	2.5	10	3.5	0.15
35 WVDC AT + 85 °C, SURGE = 46 V . . . 23 WVDC AT + 125 °C, SURGE = 28 V						
4.7*	B*	572D475X_035B2_*	1.7*	6*	1.6*	0.22*

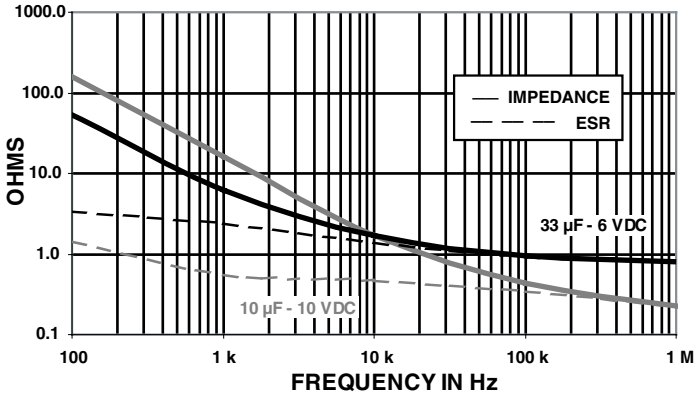
* = 1.7 mm Max. height, 572D227X_004B2_001 and 1.0 mm Max. height, 572D336X_004P2_001
For 10 % tolerance, specify "9"; For 20 % tolerance change to "0".

TYPICAL CURVES AT + 25 °C, IMPEDANCE AND ESR VS FREQUENCY

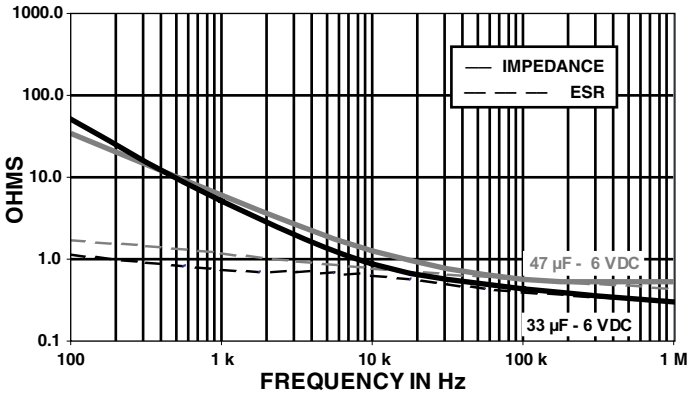
"B" case



"P" case



"Q" case



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