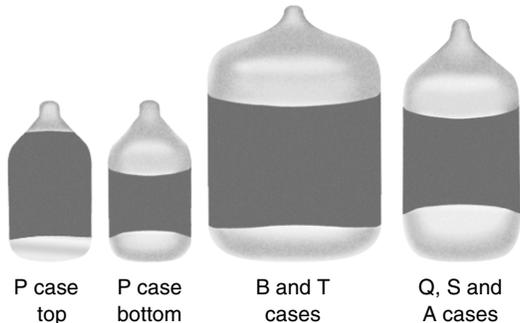


Solid Tantalum Chip Capacitors

TANTAMOUNT[®], Low Profile, Conformal Coated, Maximum CV



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



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 25 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 V).	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]							
				<p>Single-side electrodes (Both electrodes at bottom side only)</p>			
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]



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Vishay Sprague

RATINGS AND CASE CODE					
μF	4 V	6.3 V	10 V	16 V	25 V
2.2					Q
4.7					A/S
6.8					
10			P	P	A
15					
22				A/B/T	
33	P	A/P/Q/S	P/A/S		
47		Q/S	S ⁽¹⁾		
68		S	B		
100		A/B/T/S/Q ⁽¹⁾	B/T		
220	B/B ⁽²⁾ /T/S	B			
330	T ⁽¹⁾				

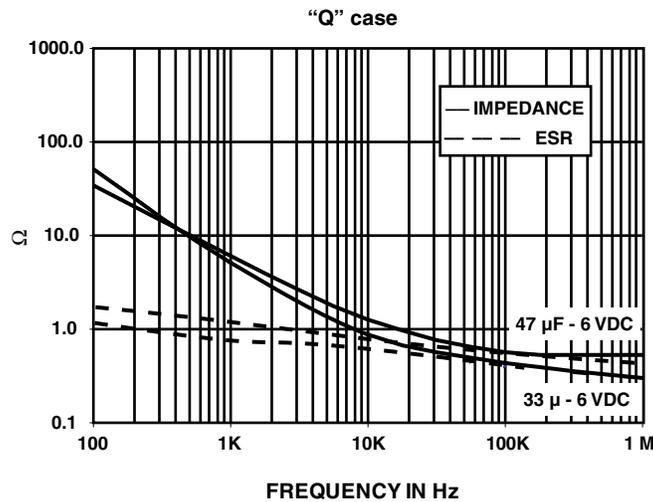
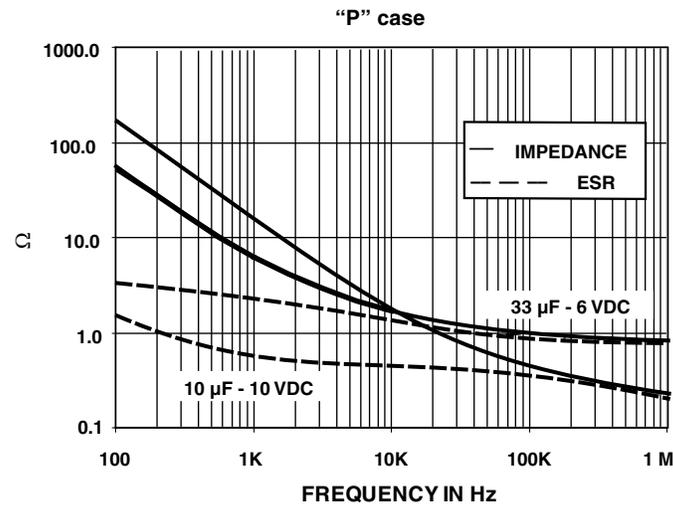
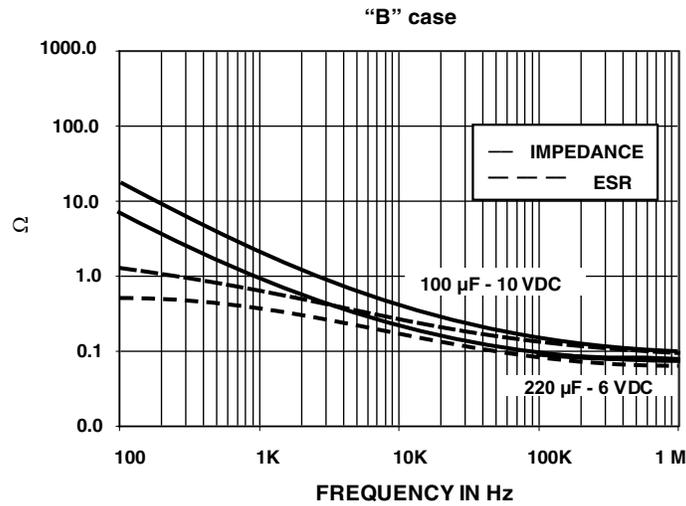
STANDARD RATINGS						
CAPACITANCE (μF)	CASE CODE	PART NUMBER	MAX. DCL AT + 25 °C (μA)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. ESR AT + 25 °C 100 kHz (Ω)	MAX. RIPPLE 100 kHz I _{rms} (A)
4 WVDC AT + 85 °C, SURGE = 5.2 V . . . 2.7 WVDC AT + 125 °C, SURGE = 3.4 V						
33	P	572D336X_004P2_001 ⁽²⁾	1.32	14	1.5	0.13
220	B	572D227X_004B2_	8.8	16	0.2	0.63
220	B	572D227X_004B2_001 ⁽²⁾	8.8	16	0.2	0.63
220	T	572D227X_004T2_	8.8	26	0.6	0.37
220	S	572D227X0004S2_	8.8	25	0.8	0.26
330*	T*	572D337X_004T2_ ⁽¹⁾	13.2 ⁽¹⁾	26 ⁽¹⁾	0.8 ⁽¹⁾	0.56 ⁽¹⁾
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	572D336X06R3P2_	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
100	S	572D107X_6R3S2_	6.3	20	1.0	0.24
100 ⁽¹⁾	Q ⁽¹⁾	572D107X_6R3Q2_ ⁽¹⁾	6.3 ⁽¹⁾	25 ⁽¹⁾	1.5 ⁽¹⁾	0.19 ⁽¹⁾
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	P	572D336X0010P2_	3.3	25	4.0	0.08
33	A	572D336X0010A2_	3.3	10	0.8	0.29
33	S	572D336X0010S2_	3.3	10	1.1	0.23
47 ⁽¹⁾	S ⁽¹⁾	572D476X0010S2_ ⁽¹⁾	4.7 ⁽¹⁾	14 ⁽¹⁾	1.1 ⁽¹⁾	0.23 ⁽¹⁾
68	B	572D686X_010B2_	6.8	6	0.45	0.42
100	B	572D107X0010B2_	10	14	0.4	0.45
100	T	572D107X0010T2_	10.0	18	0.5	0.40
16 WVDC AT + 85 °C, SURGE = 20 V . . . 10 WVDC AT + 125 °C, SURGE = 12 V						
10	P	572D106X_016P2_	1.6	10	4.0	0.08
22	A	572D226X_016A2_	3.5	8	1.4	0.22
22	B	572D226X_016B2_	3.5	6	0.5	0.45
22	T	572D226X_016T2_	3.5	8	1.0	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

Notes

⁽¹⁾ Contact factory for availability

⁽²⁾ Special height: 572D227X_004B2_001, height = 1.7 mm max.; 572D336X_004P2_001, height = 1.0 mm max.

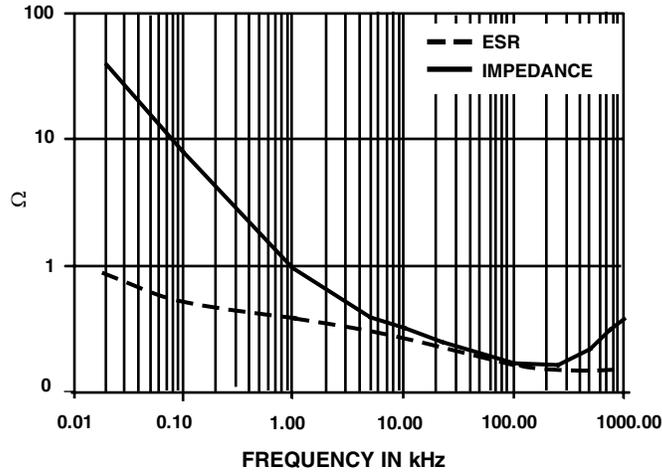
TYPICAL CURVES AT + 25 °C, IMPEDANCE AND ESR VS. FREQUENCY



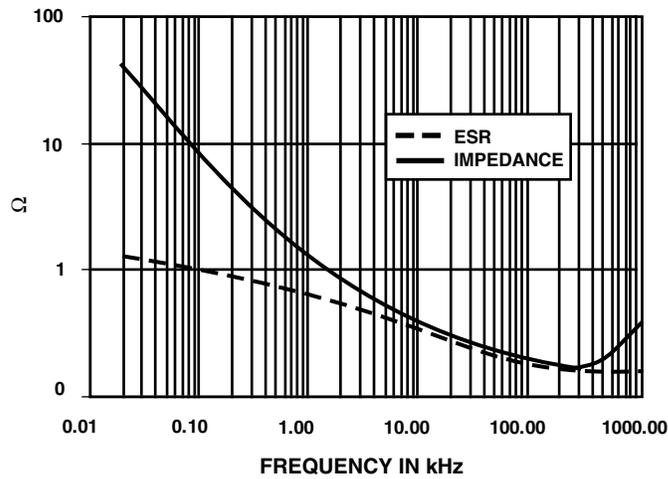


TYPICAL CURVES AT + 25 °C, IMPEDANCE AND ESR VS. FREQUENCY

220 μ F - 4 V T-Case
ESR/Z vs. Freq.



220 μ F - 4 V S-Case
ESR/Z vs. Freq.





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