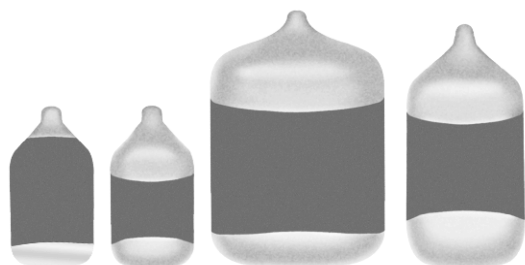


Solid Tantalum Chip Capacitors

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

P case
topP case
bottomB and T
casesQ, S and
A casesImages
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

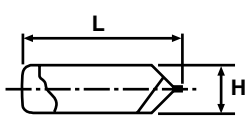
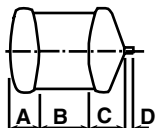
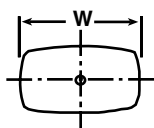
ORDERING INFORMATION

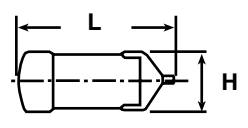
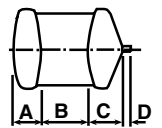
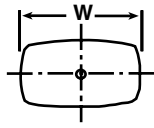
572D	336	X0	6R3	A	2	T
TYPE	CAPACITANCE	CAPACITANCE TOLERANCE	DC VOLTAGE RATING AT + 85 °C	CASE CODE	TERMINATION	REEL SIZE AND PACKAGING
This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow.		X0 = ± 20 % X9 = ± 10 %	This is expressed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

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]



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

Vishay Sprague

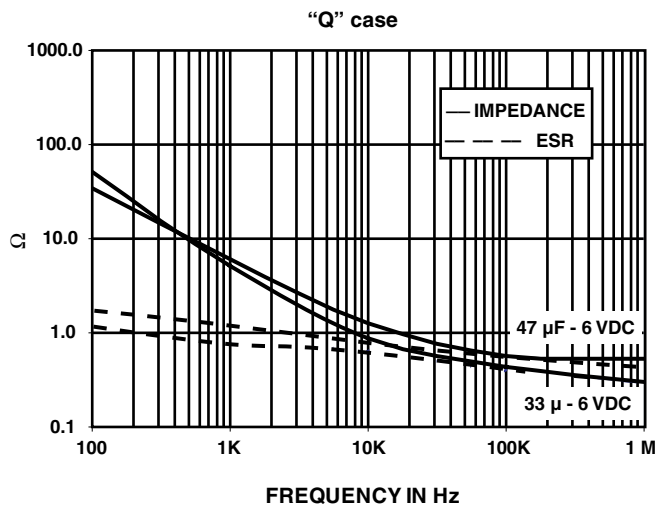
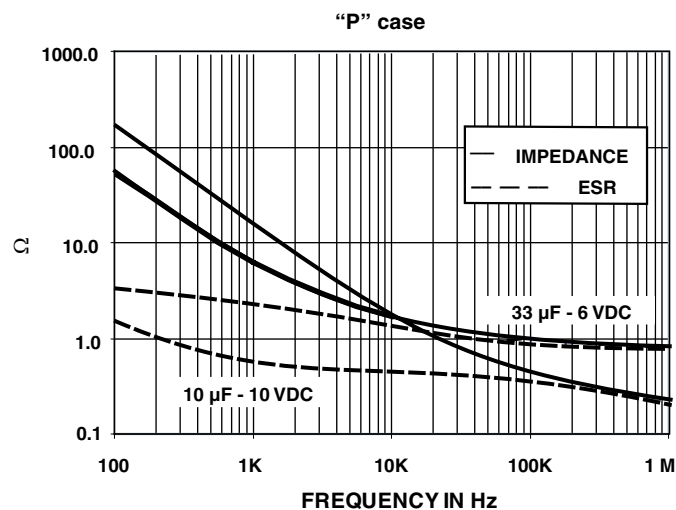
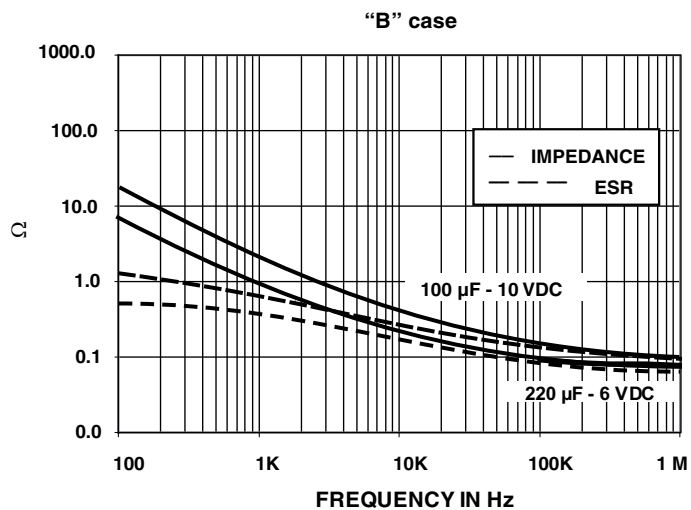
RATINGS AND CASE CODE					
μF	4 V	6.3 V	10 V	16 V	25 V
2.2					Q
4.7					A/S
6.8					
10			P		A
15					
22				A/B/T	
33	P	A/P/Q/S	P/A/S		
47		Q/S	S*		
68		S	B		
100		A/B/T/S/Q*	B/T		
220	B/B**/T/S	B			
330	T*				

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**	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	572D227X0004S2_	8.8	25	0.8	0.26
330*	T*	572D337X_004T2_*	13.2*	26*	0.8*	0.56*
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*	Q*	572D107X_6R3Q2_*	6.3*	25*	1.5*	0.19*
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*	S*	572D476X0010S2_*	4.7*	14*	1.1*	0.23*
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						
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

Note:

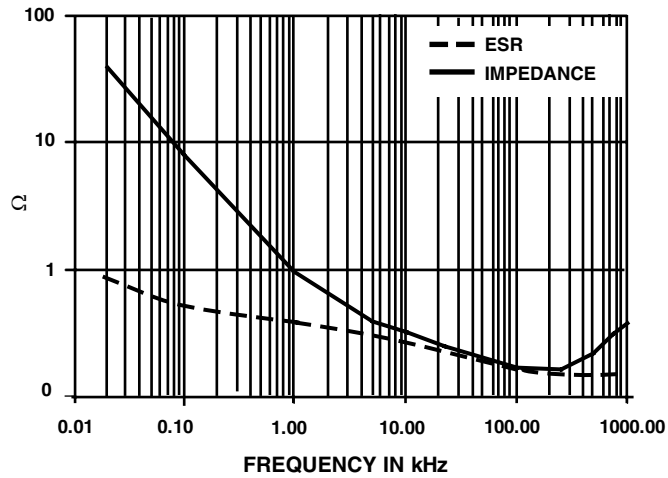
* Contact factory for availability

** Special Height: 572D227X_004B2_001, height = 1.7 mm Max.; 572D336X_004P2_001, height = 1.0 mm Max.

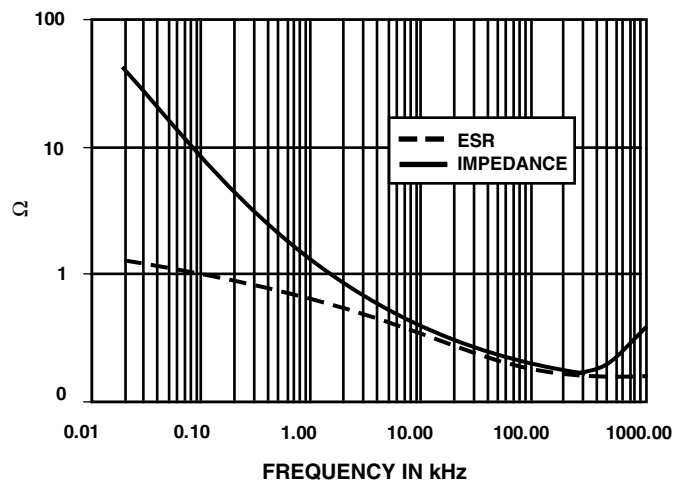
TYPICAL CURVES AT + 25 °C, IMPEDANCE AND ESR VS. FREQUENCY

**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.





Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.