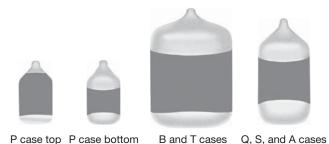


Solid Tantalum Chip Capacitors TANTAMOUNT®, Low Profile, Conformal Coated, Maximum CV



Images not to scale

FEATURES

- P case offers single-sided lead (Pb)-free terminations
 Wraparound lead (Pb)-free terminations: Q, S,
- Pb-free

Rohs

- A, B, and T cases
 8 mm and 12 mm tape and reel packaging available per EIA-481 and reeling per IEC 60286-3 7" [178 mm] standard
 13" [330 mm] available
- Mounting: Surface mount
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

PERFORMANCE CHARACTERISTICS

www.vishay.com/doc?40088

Operating Temperature: - 55 °C to + 125 °C (above 85 °C, voltage derating is required)

Capacitance Range: 2.2 μF to 220 μF

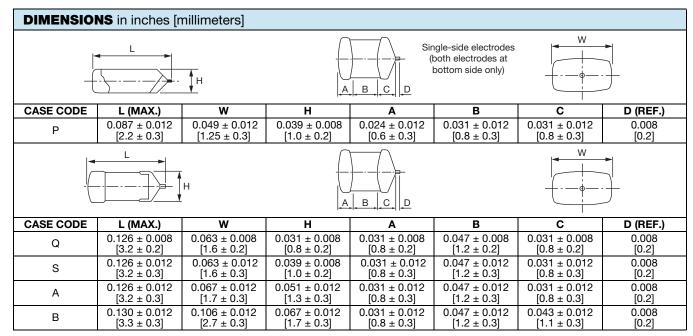
Capacitance Tolerance: ± 10 %, ± 20 % standard

Voltage Rating: 4 V_{DC} to 35 V_{DC}

ORD	ORDERING INFORMATION							
572D	336	X0	6R3	Α	2	Т		
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		

Notes

- 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





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DIMENSIONS in inches [millimeters]							
Т	0.138 ± 0.008 $[3.5 \pm 0.2]$	0.106 ± 0.008 [2.7 ± 0.2]	0.039 ± 0.008 [1.0 ± 0.2]	0.031 ± 0.008 $[0.8 \pm 0.2]$	0.047 ± 0.008 [1.2 ± 0.2]	0.043 ± 0.008 [1.1 ± 0.2]	0.008 [0.2]

RATINGS AN	RATINGS AND CASE CODES						
μF	4 V	6.3 V	10 V	16 V	25 V	35 V	
2.2					Q	А	
4.7					A/S		
10			Р	Р	Α		
22				A/B/T			
33		A/P/Q/S	A/P/S				
47		Q/S	S				
68		S	В				
100		A/B/S/T	B/T				
220	B/S/T	В					

CAPACITANCE (μF)	CASE CODE	PART NUMBER	MAX. DCL AT + 25 °C (μΑ)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. ESR AT + 25 °C 100 kHz (Ω)	MAX. RIPPLE 100 kHz I _{RMS} (A)
		4 V _{DC} AT+	85 °C, 2.7 V _{DC} AT	+ 125 °C		
220	В	572D227(1)004B(2)(3)	8.8	16	0.2	0.63
220	S	572D227X0004S(2)(3)	8.8	25	0.8	0.26
220	Т	572D227X0004T(2)(3)	8.8	26	0.6	0.37
		6.3 V _{DC} AT	+ 85 °C, 4 V _{DC} AT	+ 125 °C		
33	Α	572D336(1)6R3A(2)(3)	2.1	8	0.8	0.29
33	Р	572D336X06R3P(2)(3)	2.1	14	1.5	0.13
33	Q	572D336(1)6R3Q(2)(3)	2.1	10	2.0	0.17
33	S	572D336(1)6R3S(2)(3)	2.1	10	1.4	0.24
47	Q	572D476X06R3Q(2)(3)	3.0	10	1.1	0.22
47	S	572D476(1)6R3S(2)(3)	3.0	10	0.9	0.25
68	S	572D686(1)6R3S(2)(3)	4.3	12	0.9	0.26
100	Α	572D107(1)6R3A(2)(3)	6.3	14	0.8	0.36
100	В	572D107(1)6R3B(2)(3)	6.3	14	0.4	0.45
100	S	572D107X06R3S(2)(3)	6.3	20	1.0	0.24
100	Т	572D107(1)6R3T(2)(3)	6.3	14	0.6	0.36
220	В	572D227(1)6R3B(2)(3)	13.9	16	0.2	0.63
		10 V _{DC} AT	+ 85 °C, 7 V _{DC} AT +	+ 125 °C		
10	Р	572D106(1)010P(2)(3)	1.0	8	3.0	0.09
33	Α	572D336(1)010A(2)(3)	3.3	10	0.8	0.29
33	Р	572D336X0010P(2)(3)	3.3	25	4.0	0.08
33	S	572D336X0010S(2)(3)	3.3	10	1.1	0.23
47	S	572D476X0010S(2)(3)	4.7	14	1.1	0.23
68	В	572D686(1)010B(2)(3)	6.8	6	0.45	0.42
100	В	572D107(1)010B(2)(3)	10	14	0.4	0.45
100	Т	572D107X0010T(2)(3)	10	18	0.5	0.40
		16 V _{DC} AT -	+ 85 °C, 10 V _{DC} AT	+ 125 °C		
10	Р	572D106(1)016P(2)(3)	1.6	10	4.0	0.08
22	Α	572D226(1)016A(2)(3)	3.5	8	1.4	0.22
22	В	572D226(1)016B(2)(3)	3.5	6	0.5	0.45
22	T	572D226(1)016T(2)(3)	3.5	8	1.1	0.27
		25 V _{DC} AT	+ 85 °C, 17 V _{DC} AT	+ 125 °C		
2.2	Q	572D225(1)025Q(2)(3)	0.65	6	5.0	0.10
4.7	Α	572D475(1)025A(2)(3)	1.2	8	2.8	0.15
4.7	S	572D475(1)025S(2)(3)	1.2	8	4.0	0.12

Note

- Part number definitions:
- (1) Tolerance: For 10 % tolerance, specify "X9"; for 20 % tolerance, change to "X0" (2) Termination: For 100 % tin specify "2", for gold plated specify "4" (3) Packaging code: For 7" reels specify "T", for 13" reel specify "W"



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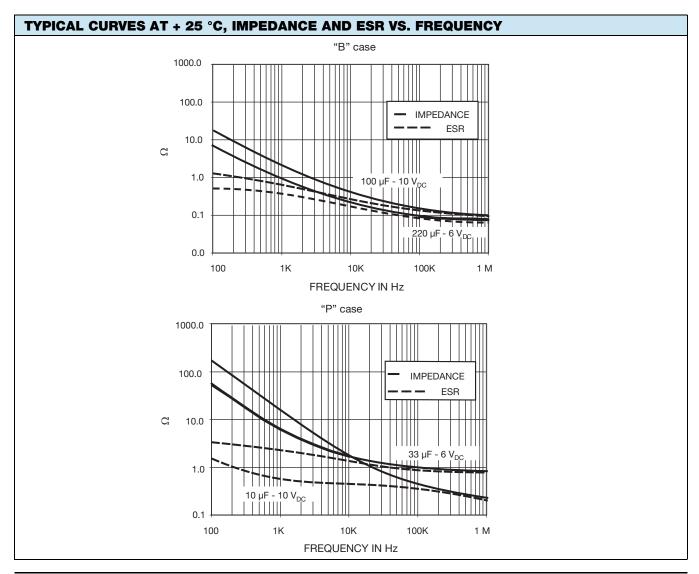
STANDARD	STANDARD RATINGS					
CAPACITANCE (µF)	CASE CODE	PART NUMBER	MAX. DCL AT + 25 °C (μA)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. ESR AT + 25 °C 100 kHz (Ω)	MAX. RIPPLE 100 kHz I _{RMS} (A)
10	Α	572D106(1)025A(2)(3)	2.5	10	3.5	0.15
35 V _{DC} AT + 85 °C, 23 V _{DC} AT + 125 °C						
2.2	Α	572D225(1)035A(2)(3)	0.8	6	3.0	0.12

Note

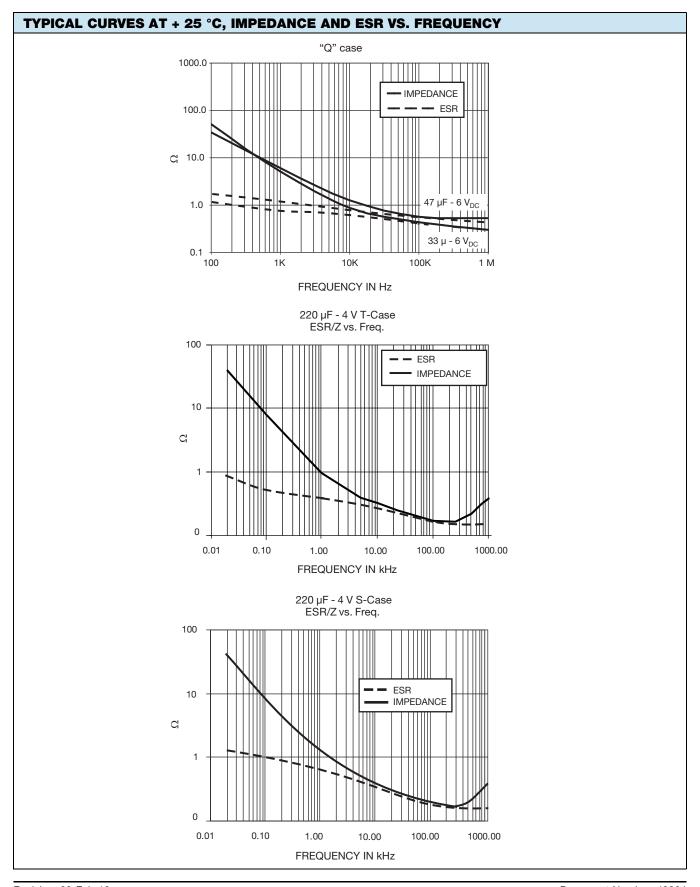
- Part number definitions:
 - (1) Tolerance: For 10 % tolerance, specify "X9"; for 20 % tolerance, change to "X0" (2) Termination: For 100 % tin specify "2", for gold plated specify "4" (3) Packaging code: For 7" reels specify "T", for 13" reel specify "W"



RECOMMENDED VOLTAGE DERATING GUIDELINES (for temperatures below + 85 °C)			
STANDARD CONDITIONS. FOR EXAMPLE: OUTPUT FILTERS			
Capacitor Voltage Rating	Operating Voltage		
4.0	2.5		
6.3	3.6		
10	6.0		
16	10		
25	15		
35	24		
SEVERE CONDITIONS. FOR EXAMPLE: INPUT FILTERS			
Capacitor Voltage Rating	Operating Voltage		
4.0	2.5		
6.3	3.3		
10	5.0		
16	8.0		
25	12		
35	15		









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POWER DISSIPATION					
CASE CODE	MAXIMUM PERMISSIBLE POWER DISSIPATION AT + 25 °C (W) IN FREE AIR				
Р	0.025				
Q	0.055				
S	0.060				
Α	0.065				
В/Т	0.080				

STANDARD PACKAGING QUANTITY				
0405 0005	UNITS PER REEL			
CASE CODE	7" REEL	13" REEL		
А	2500	10 000		
В	2000	10 000		
Р	3000	10 000		
Q	2500	10 000		
S	2500	10 000		
Т	1500	8000		

PRODUCT INFORMATION	
Conformal Coated Guide Recommended Pad Layouts Carrier Tape Information Reflow Profiles	www.vishay.com/doc?40150
Moisture Sensitivity	www.vishay.com/doc?40135
SELECTOR GUIDES	
Solid Tantalum Selector Guide	www.vishay.com/doc?49053
Solid Tantalum Chip Capacitors	www.vishay.com/doc?40091
FAQ	·
Frequently Asked Questions	www.vishay.com/doc?40110



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