

Vishay Sprague

Solid Tantalum Chip Capacitors TANTAMOUNT[®], Ultra-Low ESR, Conformal Coated, Maximum CV



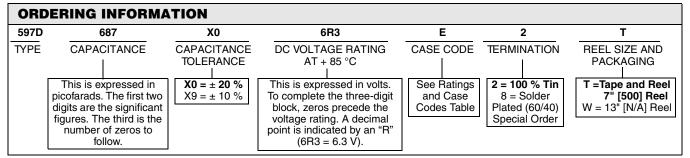
PERFORMANCE CHARACTERISTICS

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

FEATURES

- New case size offerings
 Case profiles: E case (4 mm) and R case (3.6 mm)
- Low profile case: V case (2 mm)
- Terminations: Tin (2) standard
- Extremely low ESR
- Ripple current up to 4.1 A

Capacitance Range: 15 μ F to 1500 μ F Capacitance Tolerance: ± 10 %, ± 20 % standard Voltage Rating: 4 WVDC to 63 WVDC



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 Voltage substitutions will be marked with the higher voltage rating

DIMENSIONS in inches [millimeters]										
- ل		Nib ider Anode	Tantalum wire Nib identifies Anode (+) Terminal			• • • • • • • • • • • • • • • • • • •				
CASE CODE L (MAX.)		W	н	Α	В	D (REF.)	J (MAX.)			
E	0.287 ± 0.012	0.173 ± 0.016	0.157 ± 0.016	0.051 ± 0.012	0.180 ± 0.025	0.253	0.004			
	[7.3 ± 0.3]	[4.4 ± 0.4]	[4.0 ± 0.4]	[1.3 ± 0.3]	[4.6 ± 0.6]	[6.4]	[0.1]			
F	0.287 ± 0.012	0.238 ± 0.016	0.187 ± 0.016	0.051 ± 0.012	0.180 ± 0.025	0.243	0.004			
	[7.3 ± 0.3]	[6.0 ± 0.4]	[4.7 ± 0.4]	[1.3 ± 0.3]	[4.6 ± 0.6]	[6.2]	[0.1]			
R	0.287 ± 0.012	0.238 + 0.016/- 0.024	0.142 ± 0.016	0.051 ± 0.012	0.180 ± 0.025	0.243	0.004			
	[7.3 ± 0.3]	[6.0 + 0.4/- 0.6]	[3.6 ± 0.4]	[1.3 ± 0.3]	[4.6 ± 0.6]	[6.2]	[0.1]			
V	0.287 ± 0.012	0.173 ± 0.016	0.079	0.051 ± 0.012	0.180 ± 0.025	0.253	0.004			
	[7.3 ± 0.3]	[4.4 ± 0.4]	[2.0] Max.	[1.3 ± 0.3]	[4.6 ± 0.6]	[6.4]	[0.1]			
Z	0.287 ± 0.012 [7.3 ± 0.3]	$\begin{array}{c} 0.238 \pm 0.016 \\ [6.0 \pm 0.4] \end{array}$	0.238 ± 0.016 [6.0 ± 0.4]	0.051 ± 0.012 [1.3 ± 0.3]	0.180 ± 0.025 [4.6 ± 0.6]	0.243 [6.2]	0.004 [0.1]			

Note: The anode termination (D less B) will be a minimum of 0.012" [0.3 mm] * Pb containing terminations are not RoHS compliant, exemptions may apply





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RATINGS AND CASE CODE										
μF	4 V	6.3 V	10 V	16 V	20 V	25 V	35 V	50 V	63 V	75 V
10										
15								E/R		
22								R	F*	
33								F		
47							R	Z*		
68						R				
100										
150						F				
220				E	R					
330		V	E		F*					
470	V	E	E	F*						
680	E	E	R							
1000	E/R	R								
1500	R									
2200										

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 (mΩ)	MAX. RIPPLE 100 kHz IRMS (A)
	4 WVDC	AT + 85 °C, SURGE =	5.2 V 2.7 WVDC	AT + 125 °C, SUR	GE = 3.4 V	
470	V	597D477X_004V	19	8	30	2.2
680	E	597D687X_004E	27	6	25	2.9
1000	E	597D108X_004E	40	8	20	3.3
1000	R	597D108X_004R	40	8	18	3.7
1500	R	597D158X_004R	60	8	15	4.1
	6.3 W	VDC AT + 85 °C, SURG	E = 8 V 4 WVDC	AT + 125 °C, SUR	GE = 5 V	
330	V	597D337X_6R3V	21	8	35	2.0
470	E	597D477X_6R3E	30	6	30	2.7
680	E	597D687X_6R3E	43	6	25	2.9
1000	R	597D108X_6R3R	63	8	20	3.5
	10 WV	DC AT + 85 °C, SURGE	E = 13 V 7 WVDC	CAT + 125 °C, SUR	GE = 8 V	
330	E	597D337X_010E	33	6	35	2.5
470	E	597D477X_010E	47	6	28	2.8
680	R	597D687X_010R	68	6	28	2.9
	16 WVI	OC AT + 85 °C, SURGE	= 20 V 10 WVDC	CAT + 125 °C, SUR	GE = 12 V	
220	E	597D227X_016E	35	8	40	2.3
470	F	597D477X_016F *	75	14	100	1.4
	20 WVE	OC AT + 85 °C, SURGE	= 26 V 13 WVDC	CAT + 125 °C, SUR	GE = 16 V	
220	R	597D227X_020R	44	8	80	1.8
330	F	597D337X_020F*	66	10	100	1.4
	25 WVE	OC AT + 85 °C, SURGE	= 32 V 17 WVDC	CAT + 125 °C, SUR	GE = 20 V	
68	R	597D686X_025R	17	6	100	1.6
150	F	597D157X_025F	38	8	80	1.8
	35 WVE	OC AT + 85 °C, SURGE	= 46 V 23 WVDC	CAT + 125 °C, SUR	GE = 28 V	
47	R	597D476X_035R	17	6	80	1.8
	50 WVE	OC AT + 85 °C, SURGE	= 65 V 33 WVDC	CAT + 125 °C, SUR	GE = 38 V	
15	E	597D156X_050E	8	6	300	0.8
15	R	597D156X_050R	8	6	250	1.0
22	R	597D226X_050R	11	6	170	0.8
33	F	597D336X_050F	17	6	150	0.8
47	Z	597D476X_050Z*	24	6	145	1.1
	63 WVI	OC AT + 85 °C, SURGE	= 81 V 42 WVDC	AT + 125 °C, SUR	GE = 54 V	
22	F	597D226X_063F*	14	6	200	0.9

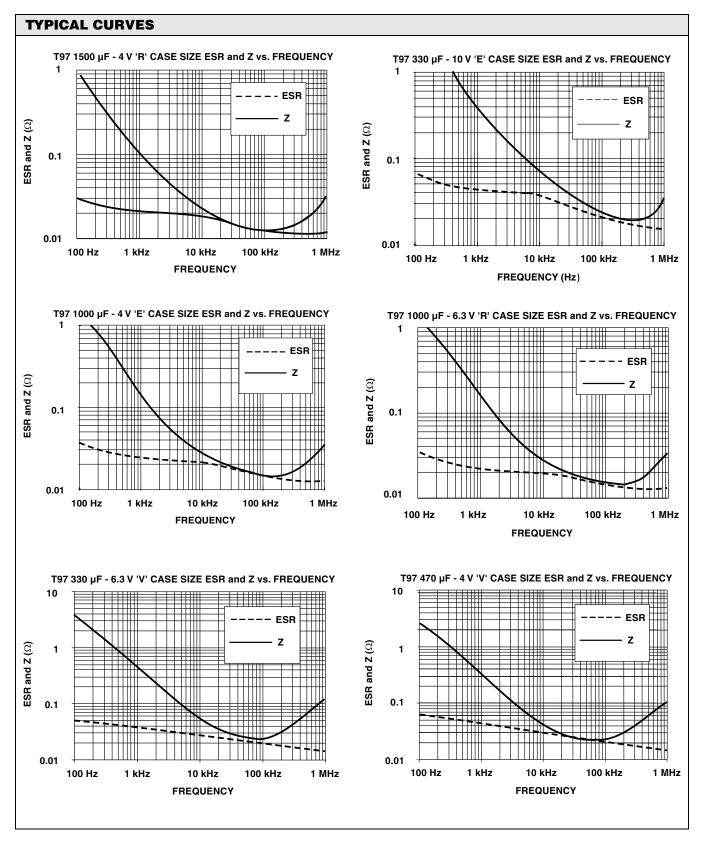
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