Vishay Sprague



Solid Tantalum Chip Capacitors TANTAMOUNT®, Hi-Rel COTS, Ultra-Low ESR, Conformal Coated Case



FEATURES

High reliability; Weibull failure rate grading available



Surge current testing per MIL-PRF-55365 options available

RoHS'

- Ultra-low ESR
- Tin/Lead (SnPb) termination available

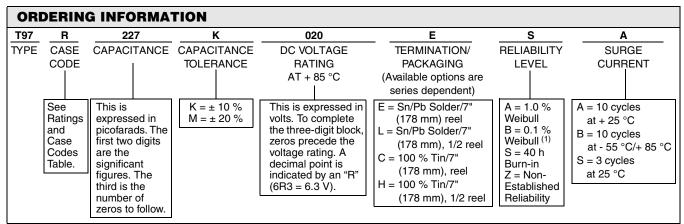
PERFORMANCE CHARACTERISTICS

Operating Temperature: - 55 °C to + 85 °C (To + 125 °C with voltage derating)

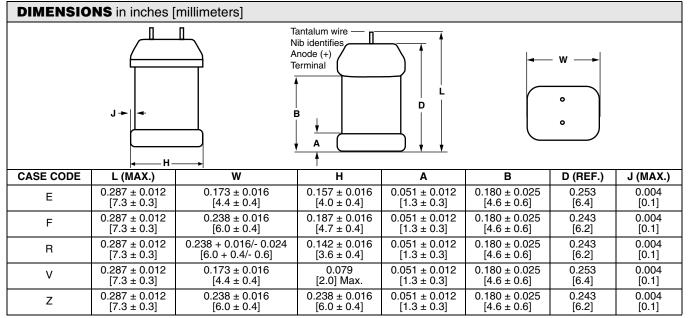
Capacitance Range: 15 μF to 1500 μF

Capacitance Tolerance: ± 10 %, ± 20 % standard

Voltage Rating: 4 WVDC to 63 WVDC



Note: (1) Available on select ratings. See ratings table on page 7.



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										

STANDARD	RATINGS					
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 W	VDC at + 85 °C, SURGE = 5	.2 V 2.7 WVDC	at + 125 °C, SURG	E = 3.4 V	
470	V	T97V477(1)004(2)(3)(5)	19	8	30	2.2
680	E	T97E687(1)004(2)(3)(5)	27	6	25	2.9
1000	E	T97E108(1)004(2)(3)(5)	40	8	20	3.3
1000	R	T97R108(1)004(2)(3)(5)	40	8	18	3.7
1500	R	T97R158(1)004(2)(3)(5)	60	8	15	4.1
	6.3	WVDC at + 85 °C, SURGE	= 8 V 4 WVDC	at + 125 °C, SURG	iE = 5 V	
330	V	T97V337(1)6R3(2)(3)(5)	21	8	35	2.0
470	E	T97E477(1)6R3(2)(3)(5)	30	6	30	2.7
680	E	T97E687(1)6R3(2)(3)(5)	43	6	25	2.9
1000	R	T97R108(1)6R3(2)(3)(5)	63	8	20	3.5
	10	WVDC at + 85 °C, SURGE	= 13 V 7 WVD0	C at + 125 °C, SURC	GE = 8 V	
330	E	T97E337(1)010(2)(3)(5)	33	6	35	2.5
470	E	T97E477(1)010(2)(3)(5)	47	6	28	2.8
680	R	T97R687(1)010(2)(3)(5)	68	6	28	2.9
	16 V	VVDC at + 85 °C, SURGE =	20 V 10 WVD0	C at + 125 °C, SURC	GE = 12 V	
220	E	T97E227(1)016(2)(3)(5)	35	8	40	2.3
470	F	T97E477(1)016(2)(3)(5)*	75	14	100	1.4
	20 \	WVDC at + 85 °C, SURGE =	26 V 13 WVD	C at + 125 °C, SUR	GE = 16 V	
220	R	T97R227(1)020(2)(3)(5)	44	8	80	1.8
330	F	T97F337(1)020(2)(3)(5)*	66	10	100	1.4
	25 \	WVDC at + 85 °C, SURGE =	32 V 17 WVD	C at + 125 °C, SUR	GE = 20 V	
68	R	T97R686(1)025(2)(4)(5)	17	6	100	1.6
150	F	T97F157(1)025(2)(4)(5)	38	8	80	1.8
	35 \	WVDC at + 85 °C, SURGE =	46 V 23 WVD	C at + 125 °C, SUR	GE = 28 V	
47	R	T97R476(1)035(2)(3)(5)	17	6	80	1.8
	50 V	VVDC at + 85 °C, SURGE =	65 V 33 WVD0	C at + 125 °C, SURC	GE = 38 V	
15	Е	T97E156(1)050(2)(4)(5)	8	6	300	0.8
15	R	T97R156(1)050(2)(3)(5)	8	6	250	1.0
22	R	T97R226(1)050(2)(3)(5)	11	6	170	8.0
33	F	T97F336(1)050(2)(3)(5)	17	6	150	0.8
47	Z	T97Z476(1)050(2)(3)(5)*	24	6	145	1.1
	63 \	NVDC at + 85 °C, SURGE =	81 V 42 WVD	C at + 125 °C, SUR	GE = 54 V	
22	F	T97F226(1)063(2)(3)(5)*	14	6	200	0.9

^{*} Contact factory for availability (1) Capacitance Tolerance: K, M

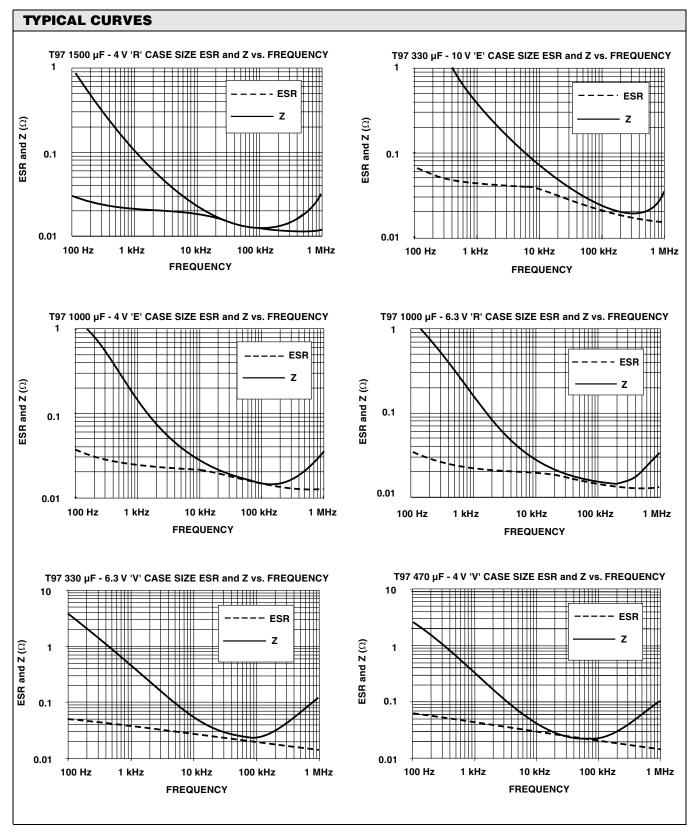
⁽²⁾ Termination and Packaging: C, E, H, L

⁽³⁾ Reliability Level: A, S, Z(4) Reliability Level: A,B, S, Z(5) Surge Current: A, B, S

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