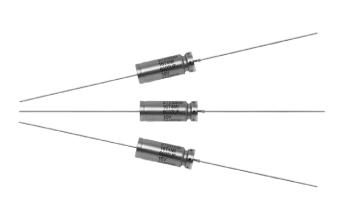


SuperTan® Extended (STE) Capacitors Wet Tantalum with Hermetic Seal



FEATURES

Vishay SuperTan® Extended (STE) represents a major breakthrough in wet tantalum capacitor technology. Its unique cathode system, also used in the ST, provides the highest capacitance per unit volume available. The STE combines the inherent reliability of wet tantalum with the capacitance stability of solid tantalum, and there are no circuit impedance restrictions. The range is exceptionally well suited for low voltage filtering and energy storage applications. Ideal for designs targeting the military and aerospace industry.

The SuperTan® Extended (STE) is housed in an all tantalum, hermetically sealed case and is manufactured to withstand high stress and hazardous environments.

PERFORMANCE CHARACTERISTICS

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

Capacitance Tolerance: At 120 Hz, +25 °C. ± 20 % standard. ± 10 % available as special.

DC Leakage Current (DCL Max.): At + 25 °C and above: Leakage current shall not exceed the values listed in the Standard Ratings Tables.

Life Test: Capacitors are capable of withstanding a 2000 h life test at a temperature of + 85 °C at the applicable rated DC working voltage.

ORDER	ING INFORMATIO	N			
STE	6000	16	Т4	М	1
TYPE	CAPACITANCE μF	DC VOLTAGE RATING AT + 85 °C	CASE SIZE	CAPACITANCE TOLERANCE M = ± 20 % K = ± 10 %	INSULATING SLEEVE I = Insulated X = Uninsulated

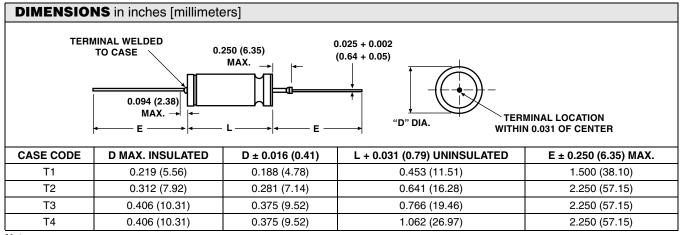
Note

Packaging: The use of formed plastic trays for packaging this type of axial lead component is standard. Tape and reel is not recommended due to the unit weight.

Vishay Sprague

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Notes

Material at egress is tantalum
 Insulation sleeving will lap over the ends of the capacitor case
 Tinned nickel leads, solderable and weldable

Approx. Weight T1: 2.3 g, T2: 5.7 g T3: 9.4 g, T4: 14.8 g

STAN	NDARD R	ATIN	GS									
CAP.	VOLTAGE	CASE CODE	PART NUMBER	MAX. ESR at + 25 °C 120 Hz (Ω)	TYP. ESR at + 25 °C 1 kHz (Ω)	MAX. DCL at		MAX. CAPACITANCE CHANGE at			MAX. IMP. at	AC RIPPLE
(μF)						+ 25 °C (μΑ)	+ 85 °C/ + 125 °C (μΑ)	- 55 °C, (%)	+ 85 °C (%)	+ 125 °C (%)	- 55 °C 125 kHz (Ω)	85 °C 40 kHz mA rms
				10	0 WVDC at	+ 85 °C.						
4700	10	T3	STE4700-10T3MI	0.35	0.20	16	100	- 80 %	+ 10 %	+ 20 %	3.5	4000
10 000	10	T4	STE10000-10T4MI	0.25	0.100	25	150	- 85 %	+ 20 %	+ 35 %	3.0	5000
	•	•	16	WVDC at	+ 85 °C	11 WVD	C at + 125	°C				
3300	16	Т3	STE3300-16T3MI	0.35	0.20	16	100	- 80 %	+ 10 %	+ 15 %	3.5	4000
6000	16	T4	STE6000-16T4MI	0.3	0.15	25	150	- 80 %	+ 15 %	+ 20 %	3.0	4500
			25 V	VVDC at	+ 85 °C 1	5 WVDC	at + 125 °	C				
4000	25	T4	Preliminary value, contact marketing									
			30 V	VVDC at	+ 85 °C 2	0 WVDC	at + 125 °	С				
3300	30	T4	Preliminary value, contact marketing									
			35 V	VVDC at	+ 85 °C 2	2 WVDC	at + 125 °	С				
2500	35	T4	Preliminary value, contact marketing									
			50 V	VVDC at	+ 85 °C 3	0 WVDC	at + 125 °	С				
1500	50	T4	STE1500-50T4MI	0.45	0.23	15	110	- 70 %	+ 20 %	+ 20 %	6.0	3500
			60	WVDC at	+ 85 °C	40 WVD	C at + 125	°C				
1000	60	T4	STE1000-60T4MI	0.5	0.30	20	120	- 40 %	+ 10 %	+ 15 %	5.5	3500
			75 \	VVDC at	+ 85 °C 5	0 WVDC	at + 125 °	С				
180	75	T2	STE180-75T2MI	1.50	0.50	5	25	- 35 %	15 %	+ 20 %	30	2000
470	75	Т3	STE470-75T3MI	0.6	0.33	25	100	- 45 %	+ 10 %	+ 25 %	10	3000
750	75	T4	STE750-75T4MI	0.5	0.40	20	120	- 35 %	+ 10 %	+ 15 %	6.5	3500
			100	WVDC at	t + 85 °C	. 65 WVD	C at + 125	5 °C				
400	100	T4	STE400-100T4MI	0.70	0.40	10	120	- 40 %	+6%	+ 12 %	15	3000
			125	WVDC at	+ 85 °C 8	85 WVDC	at + 125	°C				
270	125	T4			Preli	minary v	alue, cont	act mark	eting			

www.vishay.com

For technical questions, contact: tantalum@vishay.com

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