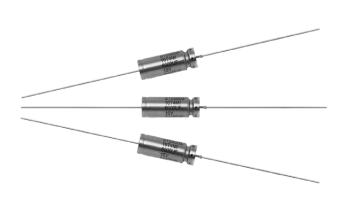
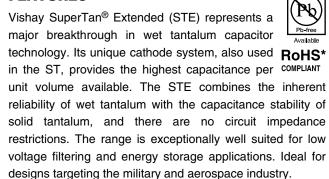


# SuperTan® Extended (STE) Capacitors Wet Tantalum with Hermetic Seal



### **FEATURES**



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

- Terminations: Standard tin/lead (Sn/Pb) 100 % tin available terminations
- Compliant to RoHS directive 2002/95/EC

## PERFORMANCE CHARACTERISTICS

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

**Capacitance Tolerance:** At 120 Hz, +25 °C.  $\pm 20$  % standard.  $\pm 10$  % 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  $^{\circ}$ C at the applicable rated DC working voltage.

ORDERING INFORMATION											
STE	6000	16	T4	M	<u> </u>	E3					
TYPE	CAPACITANCE μF	DC VOLTAGE RATING AT + 85 °C	CASE SIZE	CAPACITANCE TOLERANCE    M = ± 20 % K = ± 10 %	INSULATING SLEEVE  I = Insulated X = Uninsulated	RoHS COMPLIANT  E3 = 100 % tin termination (RoHS compliant) Blank = SnPb termination (standard design)					

## Note

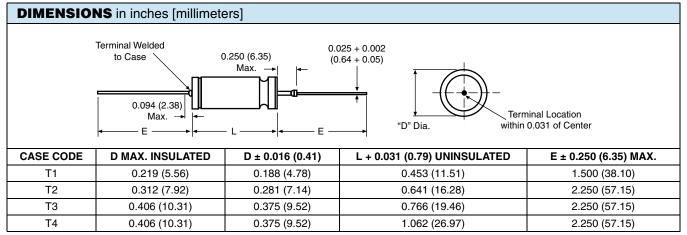
Packaging: The use of formed plastic trays for packaging this type of axial lead component is standard. Tape and reel is not recommended due to the unit weight.

<sup>\*</sup> Pb containing terminations are not RoHS compliant, exemptions may apply

# Vishay Sprague

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





#### 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. (µF)	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 85 °C
						+ 25 °C (μΑ)	+ 85 °C/ + 125 °C (μΑ)	- 55 °C, (%)	+ 85 °C (%)	+ 125 °C (%)	- 55 °C 125 kHz (Ω)	40 kHz mA RMS
				10	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 WVDC at + 125 °C												
3300	16	T3	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 \	NVDC at	+ 85 °C 1	5 WVDC	at + 125 °	C				
4000	25	T4	STE4000-25T4MI	0.35	0.15	25	125	- 80	+ 15	+ 20	5.0	4250
			30 \	NVDC at	+ 85 °C 2	0 WVDC	at + 125 °	C				
3300	30	T4	Preliminary value, contact marketing									
			35 \	NVDC at	+ 85 °C 2	2 WVDC	at + 125 °	С				
2800	35	T4	Preliminary value, contact marketing									
			50 \	NVDC at	+ 85 °C 3	0 WVDC	at + 125 °	C				
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 \	NVDC at	+ 85 °C 5	0 WVDC	at + 125 °	C				
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	+ 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
	1	1	125	WVDC at	+ 85 °C	85 WVDC	at + 125	°C				
270	125	T4	Preliminary value, contact marketing									

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26

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