

Snap-in Type

Series: **EE** Type: **TS**



■ Features

- Endurance : 105 °C 3000 h
- Miniaturize (Maximum Ripple Current) Low profile
- RoHS directive compliant



■ Specifications

Category Temp. Range	-40 °C to +105 °C	-25 °C to +105 °C
Rated W.V. Range	200 V.DC, 250 V.DC	400 V.DC, 450 V.DC
Nominal Cap. Range	220 µF to 1800 µF	75 µF to 560 µF
Capacitance Tolerance	±20 % (120 Hz/+20 °C)	
DC Leakage Current	$3\sqrt{CV}$ (µA) max. After 5 minutes application of rated working voltage at +20 °C C : Capacitance (µF) V: W.V. (V.DC)	
tan δ	Please see the attached standard products list	
Endurance	After 3000 hours application of DC voltage with specified ripple current (\leq rated DC working voltage) at +105 °C±2 °C, the capacitors shall meet the following limits.	
	Capacitance change	$\leq \pm 20$ % of initial measured value
	tan δ	≤ 200 % of initial specified value
	DC leakage current	\leq initial specified value
Shelf Life	After storage for 1000 hours at +105 °C±2 °C within no voltage applied and then being stabilized at +20 °C, capacitors shall meet the limits specified in Endurance. (With voltage treatment)	

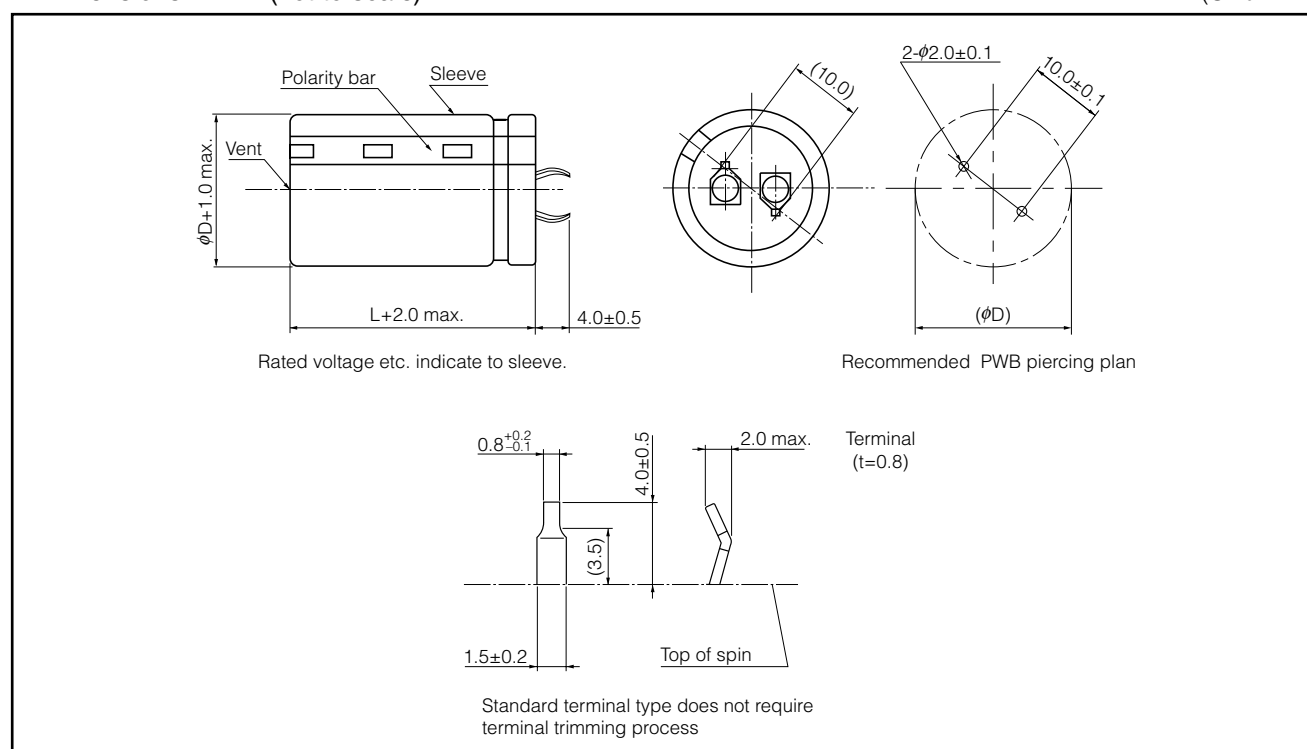
* A formula to calculate estimated lifetime of TS-EE Series is different from other series. Please contact us.

■ Frequency correction factor for ripple current

Rated Voltage	Frequency (Hz)						
	50	60	100	120	500	1 k	10 k to
200V.DC, 250V.DC	0.75	0.80	0.95	1.00	1.20	1.25	1.30
400V.DC, 450V.DC	0.75	0.80	0.95	1.00	1.20	1.25	1.40

■ Dimensions in mm (not to scale)

(Unit : mm)



Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

01 Sep. 2013