

### Snap-in Type

Series: **ED** Type: **TS**



#### ■ Features

- Endurance : 105 °C 3000 h
- High ripple current capability in high frequency range.
- RoHS directive compliant

#### ■ Specifications

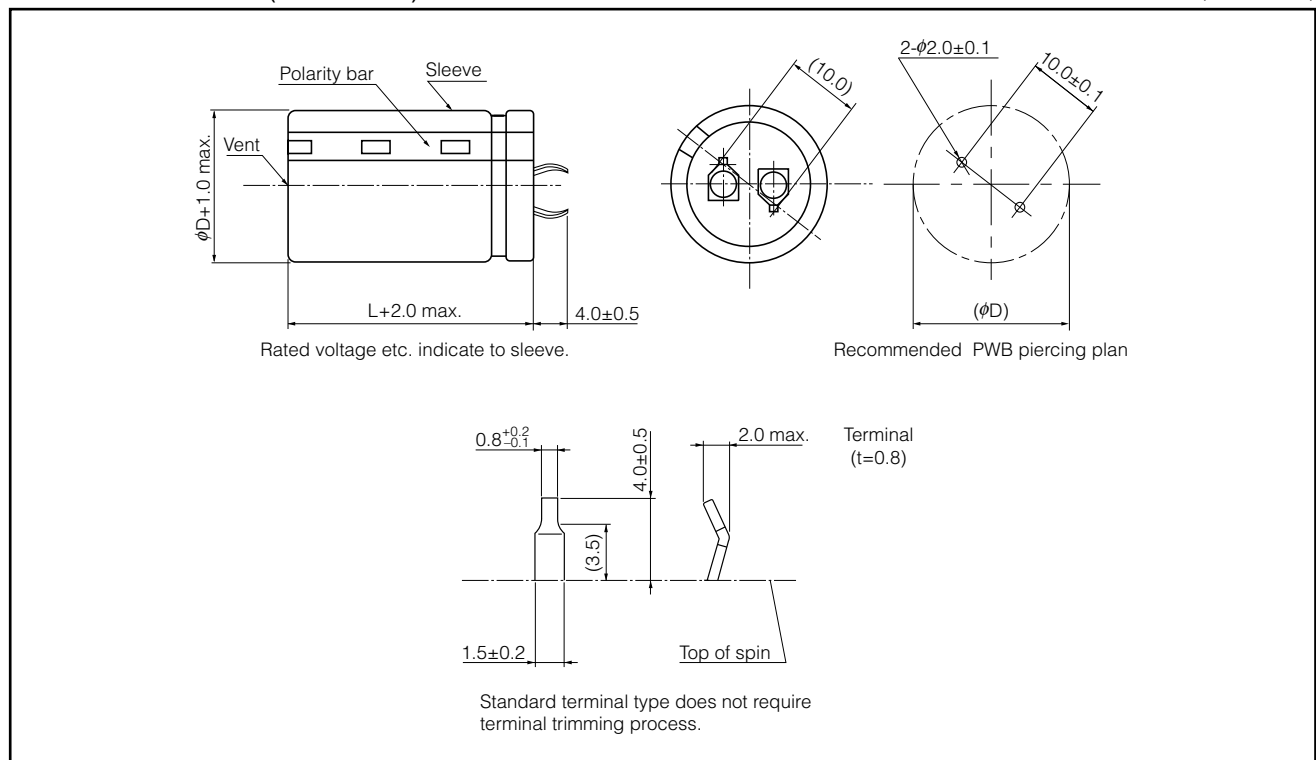
Category Temp. Range	-40 °C to + 105 °C	-25 °C to +105 °C
Rated W.V. Range	200 V.DC to 250 V.DC	400 V.DC to 450 V.DC
Nominal Cap. Range	220 μF to 2200 μF	56 μF to 560 μF
Capacitance Tolerance	±20 % (120 Hz/+20 °C)	
DC Leakage Current	3√CV (μA) max. After 5 minutes application of rated working voltage 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 (≤ rated DC working voltage) at +105 °C±2 °C, the capacitors shall meet the following limits.	
	Capacitance change	≤±20 % of initial measured value
	tan δ	≤ 200 % of initial specified value
	DC leakage current	≤ 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)	

#### ■ Frequency correction factor for ripple current

Correction factor	Frequency (Hz)						
	50	60	100	120	500	1 k	10 k to
	0.50	0.55	0.68	0.70	0.85	0.90	1.00

#### ■ 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