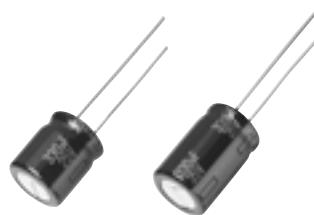


Radial Lead Type

Series: **TP** Type: **A**



■ Features

- Endurance: 125 °C 2000 h to 5000 h or 135 °C 1000 h to 2000 h
- Smaller than series TA
- High ripple current (at high frequency) : 20 to 40% higher than TA series
- AEC-Q200 qualified*
- RoHS directive compliant

■ Specifications

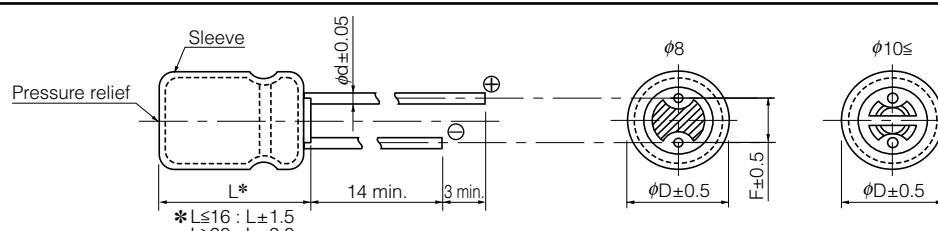
Category	Temp. Range	-40 °C to + 135 °C					
Rated W.V. Range	25 V .DC to 35 V .DC						
Nominal Cap. Range	100 µF to 5100 µF						
Capacitance Tolerance	±20 % (120 Hz/+20 °C)						
DC Leakage Current	I ≤ 0.01 CV After 2 minutes						
tan δ	W.V.(V)	25	35	(120Hz / +20 °C)			
	tan δ	0.14	0.12				
For capacitance value ≥ 1000 µF , add 0.02 per every 1000 µF.							
Endurance 1	After following life test with DC voltage and +125 °C±2 °C ripple current value applied. (The sum of DC and ripple peak voltage shall not exceed the rated working voltage) when the capacitors are restored to 20 °C, the capacitors shall meet the limits specified below.						
	Duration φ8 : 2000 hours, φ10 : 3000 hours, φ12.5 : 4000 hours, φ16 to φ18 : 5000 hours						
	Capacitance change ±30% of initial measured value						
	tan δ ≤ 300 % of initial specified value						
Endurance 2	After following life test with DC voltage and +135 °C±2 °C ripple current value applied. (The sum of DC and ripple peak voltage shall not exceed the rated working voltage) when the capacitors are restored to 20 °C, the capacitors shall meet the limits specified below.						
	Duration φ8 : 1000 hours, φ10 to φ18 : 2000 hours						
	Capacitance change ±30% of initial measured value						
	tan δ ≤ 300 % of initial specified value						
Shelf Life 1	After storage for 1000 hours at +125 °C±2 °C with no voltage applied and then being stabilized at +20 °C, capacitors shall meet the limits specified in Endurance. (With voltage treatment)						
Shelf Life 2	After storage for 1000 hours at +135 °C±2 °C with 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

W.V. (V.DC)	Cap. (µF)	Frequency (Hz)				
		60	120	1 k	10 k	100 k
25 to 35	to 330	0.55	0.65	0.85	0.90	1.00
	390 to 1000	0.70	0.75	0.90	0.95	1.00
	1200 to	0.75	0.80	0.90	0.95	1.00

■ Dimensions in mm (not to scale)

(Unit : mm)



Body Dia. φD	8	10	12.5	16	18
Lead Dia. φd	0.6	0.6	0.6	0.8	0.8
Lead space F	3.5	5.0	5.0	7.5	7.5

* This product qualify for AEC-Q200, but it has some deviations.

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.

02 May. 2014

