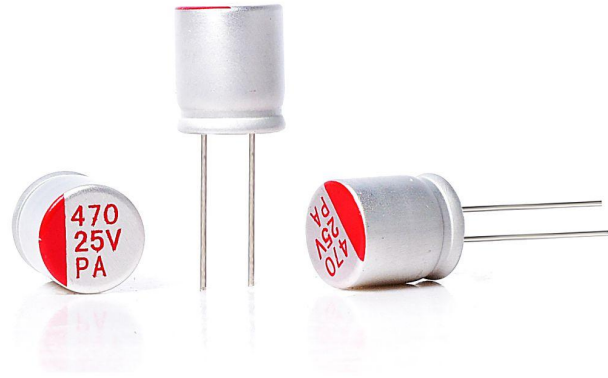


## PA SERIES

- High ripple current capability.
- High Endurance : 5000 hours at 105°C
- High temperature resistance (-55°C to +105°C)
- RoHS Compliance (2011/65/EU)

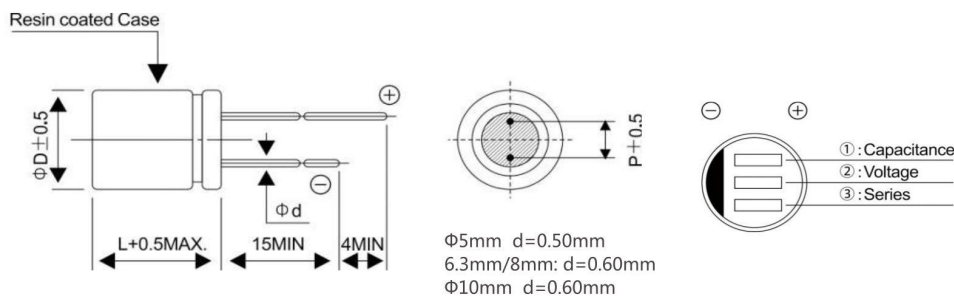


### SPECIFICATIONS 技术参数

Table - 1

Items	Test Conditions	Characteristics	
Category temperature range	-	-55°C to +105°C	
Capacitance Tolerance	At 20°C, 120Hz	M:±20%	
Dissipation Factor ( tan δ)	At 20°C, 120Hz	≤ The value of table-3	
Leakage Current	At 20°C After 2 minites	I ≤ 0.2CV (I= MAX Leakage Current, C=Capacitance, V=Rated Voltage)	
ESR	At 100K Hz, 20°C	≤ The value of table-3	
Characteristics of impedance ratio at high temp. and low temp.	At 100KHz	Z(-55°C) / Z(+20°C) ≤ 1.25	
Endurance (High Temp Load Test)	When the capacitors are restored to 20°C after the rated voltage applied for 5,000 hours at 105°C	ΔC/C	Within ±20 % of the initial value
		D.F. (Tan-δ)	≤150 % of the initial specified value
		ESR	≤150 % of the initial specified value
		Leakage Current	Within the initial specified value
Humidity Bias Test (High Temp Non-Load Test)	When the capacitors are restored to 20°C after subjecting them to DC voltage at 60°C, 90% ~ 95% RH for 1,000 hours	ΔC/C	Within ±20 % of the initial value
		D.F. (Tan-δ)	≤150 % of the initial specified value
		ESR	≤150 % of the initial specified value
		Leakage Current	Within the initial specified value
Resistance to Soldering Heat	After soldering the capacitor under the soldering conditions prescribed here as preheat at 150 to 200°C for 60 to 180 seconds and peak temperature at 265°C for 10 seconds or less,the capacitor shall meet the specifications listed at right, provided that its temperature profile is measured at both of terminal ends facing the soldering side.	ΔC/C	Within ±20 % of the initial value
		D.F. (Tan-δ)	≤130 % of the initial specified value
		ESR	≤150 % of the initial specified value
		Leakage Current	Within the initial specified value

### DIMENSIONS



## PA SERIES

Table-2

Unit:(mm)

Size code	D ± 0.5	F ± 0.5	d ± 0.05
8L	5.0	2.0	0.50
8L	6.3	2.5	0.60
9L	6.3	2.5	0.60
12L	6.3	2.5	0.60
8L	8.0	3.5	0.60
11L	8.0	3.5	0.60
12.5L	10.0	5.0	0.60

■ Table3 PA Serie Characteristics List

Case Size	Rated Voltage (v)	Rated Capacitance (μF)	ESR 100KHz/20°C (mΩmax)	Rated ripple current 100KHz/105°C(mA.rms)	Dissipation Factor (max)/120Hz	Leakage current(μA) (max)/2min
5*9	25	10	12.0	1,600	0.10	50
6.3*8		22	12.0	1,800	0.10	110
6.3*8		33	12.0	2,000	0.10	165
6.3*8		47	12.0	2,200	0.10	235
6.3*8		68	12.0	2,400	0.10	340
6.3*8		82	12.0	2,000	0.10	410
6.3*8		100	12.0	2,200	0.10	500
8*8		100	12.0	2,600	0.10	500
8*11		220	12.0	4,000	0.09	1100
10*12.5		330	12.0	6,350	0.09	1650
8*12		470	12.0	6,500	0.09	2350
10*12.5		470	12.0	6,500	0.09	2350
10*12.5		680	11.0	9,200	0.09	3400