CONDUCTIVE POLYMER ALUMINUM SOLID ELECTROLYTIC CAPACITORS

PLE

Radial Lead Type, Ultra-low ESR

HR









- Ultra-low ESR, High ripple current.
- ●Load life of 2000 hours at 105°C.
- Radial lead type :
- Lead free flow soldering condition correspondence
- Compliant to the RoHS directive (2011/65/EU).



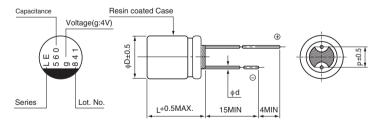


■Specifications

Item	Performance Characteristics					
Category Temperature Range	−55 to +105°C					
Rated Voltage Range	2.5 to 6.3V					
Rated Capacitance Range	470 to 1500μF					
Capacitance Tolerance	±20% at 120Hz, 20°C					
Tangent of loss angle (tan δ)	Less than or equal to the specified value at 120Hz, 20°C					
ESR (% 1)	Less than or equal to the specified value at 100kHz, 20°C					
Leakage Current (%2)	Less than or equal to the specified value. After 2 minutes' application of rated voltage at 20°C					
Temperature Characteristics (Max.Impedance Ratio)	$Z+105^{\circ}C / Z+20^{\circ}C \le 1.25$ (100kHz) $Z-55^{\circ}C / Z+20^{\circ}C \le 1.25$					
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 105°C.	Capacitance change tan δ ESR (※1) Leakage current (※2)	Within ± 20% of the initial capacitance value (#3) 150% or less than the initial specified value 150% or less than the initial specified value Less than or equal to the initial specified value			
Damp Heat (Steady State)	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 60°C, 90% RH.	Capacitance change tan δ ESR (※1) Leakage current (※2)	Within ± 20% of the initial capacitance value (*3) 150% or less than the initial specified value 150% or less than the initial specified value Less than or equal to the initial specified value			
Resistance to Soldering Heat	temperature at 265°C for 10 seconds or less, the capacitor shall meet		Within ± 10% of the initial capacitance value (**3) 130% or less than the initial specified value 130% or less than the initial specified value Less than or equal to the initial specified value			
Marking	Navy blue print on the case top					

- *1 ESR should be measured at both of the terminal ends closest to the capacitor body.
- *2 Conditioning: If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minutes at 105°C.
- \divideontimes 3 Initial value : The value before test of examination of resistance to soldering.

■ Dimensions



Voltage

Code

2.5

е

4

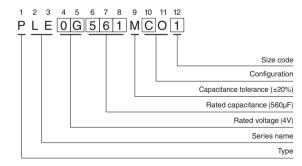
g

6.3

			(mm)
Size	φ8 × 9L	φ8 × 12L	φ10 × 13L
φD	8.0	8.0	10.0
L	8.5	11.5	12.5
Р	3.5	3.5	5.0
φd	0.6	0.6	0.6

Please refer to page 20 about the end seal configuration.

Type numbering system (Example: 4V 560µF)



Frequency coefficient of rated ripple current

Frequency	120Hz	1kHz	10kHz	100kHz or more	
Coefficient	0.05	0.30	0.70	1.00	





■Dimensions

Rated Voltage (V) Code	Surge Voltage (V)	Rated Capacitance (µF)	Case Size φD × L (mm)	tan δ	Leakage Current (μΑ)	ESR (mΩ) (at 100kHz 20°C)	Rated Ripple (mArms)	Part Number
	2.8	560	8 × 9	0.08	280	5	6100	PLE0E561MCO1
2.5 (0E)		820	▲ 8×9	0.08	410	5	6300	PLE0E821MCO6
		820	8 × 12	0.08	410	5	6600	PLE0E821MDO1
		1000	10 × 13	0.08	500	5	7100	PLE0E102MDO1
		1500	10 × 13	0.08	750	5	7300	PLE0E152MDO1
	4.6	560	8 × 9	0.08	448	5	6000	PLE0G561MCO1
4 (0G)		680	8 × 12	0.08	544	5	6500	PLE0G681MDO1
		820	10 × 13	0.08	656	5	7000	PLE0G821MDO1
		1200	10 × 13	0.08	960	5	7200	PLE0G122MDO1
6.3 (OJ)	7.2	470	8 × 12	0.08	592	5	6400	PLE0J471MDO1
		680	10 × 13	0.08	857	5	6700	PLE0J681MDO1
		820	10 × 13	0.08	1033	5	6800	PLE0J821MDO1

Rated ripple current (mArms) at 105°C 100kHz

[•] Please refer to page 20, 21, 22 about the formed or taped product spec.

[•] Please refer to page 3 for the minimum order quantity.