CONDUCTIVE POLYMER ALUMINUM SOLID ELECTROLYTIC CAPACITORS

nichicon





NEW

- Ultra Low ESR, High ripple current.
- Load life of 2000 hours at 105°C.
- Radial lead type :
- Lead free flow soldering condition correspondence
- Adapted to the RoHS directive (2002/95/EC).





■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							
tan δ	Not more than value of Standard ratings at 120Hz, 20°C							
ESR (* 1)	Not more than value of Standard ratings at 100kHz, 20°C							
Leakage Current (* 2)	Not more than value of Standard ratings. After 2 minutes' application of rated voltage. 20°C							
Characteristics of Temperature 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	After 2000 hours' application of rated voltage	Capacitance change tan δ	Within ± 20% of initial value (* 3) 150% or less of the initial specified value					
	at 105°C, capacitors meet the specified value for life characteristics listed at right.	ESR (* 1)	150% or less of the initial specified value					
	To the original original at right.	Leakage current (* 2)	Initial specified value or less					
Damp Heat	After 1000 hours' application of rated voltage at 60°C 90%RH, capacitors meet the specified value for life characteristics listed at right.	Capacitance change tan δ ESR (** 1) Leakage current (** 2)	Within ± 20% of initial value (* 3) 150% or less of the initial specified value 150% or less of the initial specified value Initial specified value or less					
Resistance to Soldering Heat	To comply with recommended conditions for reflow soldering. Pre-heating shall be done at 150 to 200°C and for 60 to 180 sec. Peak temp. is 265°C, within 10 sec. Measurement for solder temperature profile shall be made at a point on the terminal nearest where the terminals protrude through the soldering side of PC board.	Capacitance change tan δ ESR (* 1) Leakage current (* 2)	Within ± 10% of initial value (* 3) 130% or less of the initial specified value 130% or less of the initial specified value Initial specified value or less					
Marking	Navy blue print on the case top							

- st 1 ESR measurements should be made at a point on the terminal nearest the end seal of the capacitor.
- ** 2 Conditioning: If there is doubt about the measured result, measurement should be made again after the rated voltage is applied for 120 minutes at the temperature of 105°C.

Voltage

Code

2.5

е

4

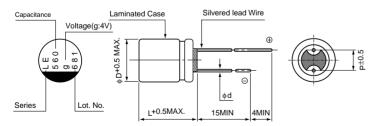
g

6.3

j

lpha 3 Initial value : The value before test of examination of resistance to soldering.

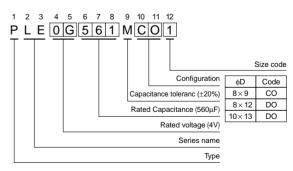
■ Dimensions



			(mm)	
Size	φ8×9L		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 configulation.

Type numbering system (Example : 4V 560µF)





■Standard ratings

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
2.5 (0E)	2.8	560	8 × 9	0.08	280	5	6000	PLE0E561MCO1
		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 (0G)	4.6	560	8 × 9	0.08	448	5	6000	PLE0G561MCO1
		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 (0J)	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 (mArms) at 105°C 100kHz

 \blacktriangle : In this case, $\ \ \fbox{6}$ $\ \$ will be put at 12th digit of type numbering system.

[•] Taping specifications are given in page 21.

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