CONDUCTIVE POLYMER ALUMINUM SOLID ELECTROLYTIC CAPACITORS

nichicon









- 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

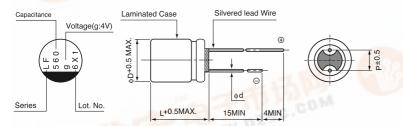
Item	Performance Characteristics						
Category Temperature Range	−55 ~ +105°C						
Rated Voltage Range	2.5 ~ 16V						
Rated Capacitance Range	270 ~ 1000μF						
Capacitance Tolerance	±20% at 120Hz, 20°C						
tan δ	Not more than value of Standard ratings at 120Hz, 20°C						
ESR (* 1)	Not more than value of Standard ratings at 100kHz, 20°C						
Leakage Current (* 2)	Not more than value of Standard ratings. After 2 minute's application of rated voltage. 20°C						
Characteristics of Temperature Impedance Ratio	$Z+105^{\circ}C / Z+20^{\circ}C \le 1.25$ (100kHz) $Z-55^{\circ}C / Z+20^{\circ}C \le 1.25$						
	After 2000 hours' application of rated voltage at 105°C, capacitors meet the specified value for life characteristics listed at right.	Capacitance change	Within ± 20% of initial value (* 3)				
F. I		tan δ	150% or less of the initial specified value				
Endurance		ESR (* 1)	150% or less of the initial specified value				
	for the characteristics listed at right.	Leakage current (* 2)	Initial specified value or less				
	THE COM						
	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	Within ± 20% of initial value (*3)				
Damp Heat		tan δ	150% or less of the initial specified value				
		ESR (* 1)	150% or less of the initial specified value				
		Leakage current (** 2) Initial specified value or less					
	To comply with recommended conditions for		z. FeA				
	reflow soldering. Pre-heating shall be done at 150 ~ 200°C and for 60 ~ 180 sec. Peak temp. is 265°C, within 10 sec. Measurement for solder temperature profile shall	Capacitance change	Within ± 10% of initial value (*3)				
Resistance to Soldering Heat		tan δ	130% or less of the initial specified value				
		ESR (* 1)	130% or less of the initial specified value				
		Leakage current (* 2)	Initial specified value or less				
	be made at a point on the terminal nearest where the terminals protrude through the soldering side of PC board.	180 TE	AM				
Marking	Navy blue print on the case top	- NI(()					

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

■Dimensions

Size

φD



(mm)

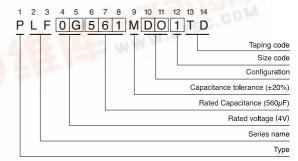
10.0

12.5

5.0

0.6

Type numbering system (Example: 4V 560µF)



8.5 Р 3.5 3.5 φd 0.6 0.6

8.0

1	√oltage					
1	找人	P2)5=	4	6.3	10	16
	Sode	e	q	i	Α	С

Please refer to page 21 about the end seal configulation.

 $\phi 8 \times 9L \quad \phi 8 \times 12L \quad \phi 10 \times 13L$

8.0

11.5



■Standard ratings

Rated Voltage (V) (code)	Rated Capacitance (µF)	Case Size φD×L (mm)	tan δ	Leakage Current (0.2CV)(μA)	ESR (mΩ) (at 100kHz 20°C)	Rated ripple (mArms)	Part Number
	560	8×9	0.08	280	6	4800	PLF0E561MCO1
	680	8×12	0.08	340	6	5700	PLF0E681MDO1
2.5 (0E)	820	▲ 8×9	0.08	410	7	5200	PLF0E821MCO6
(0L)	820	8×12	0.08	410	6	6200	PLF0E821MDO1
	1000	10×13	0.08	500	6	6500	PLF0E102MDO1
	560	▲ 8×9	0.08	448	7	5200	PLF0G561MCO6
4	560	8×12	0.08	448	7	5500	PLF0G561MDO1
(0G)	680	8×12	0.08	544	6	6200	PLF0G681MDO1
	820	10×13	0.08	656	6	6500	PLF0G821MDO1
	470	▲ 8×9	0.08	592	7	5200	PLF0J471MCO6
6.3 (0J)	470	8×12	0.08	592	7	5500	PLF0J471MDO1
(00)	680	10×13	0.08	857	6	6300	PLF0J681MDO1
10	270	8×12	0.08	540	8	4900	PLF1A271MDO1
(1A)	470	10×13	0.08	940	7	5700	PLF1A471MDO1
16	270	8×12	0.08	864	9	4800	PLF1C271MDO1
(1C)	470	10×13	0.08	1504	9	5000	PLF1C471MDO1

No marked, 1 will be put at 12th digit of type numbering system.

▲: In this case, ⑥ will be put at 12th digit of type numbering system.

Rated Ripple (mArms) at 105°C 100kHz

Taping specifications are given in page 24.Please refer to page 3 for the minimum order quantity.