CONDUCTIVE POLYMER ALUMINUM SOLID ELECTROLYTIC CAPACITORS

nichicon

Ultra Low ESR series	Low Impedance For High Frequency Anti-Solvent Feature	
 Ultra Low ESR, High ripple current. Load life of 2000 hours at 105°C. Radial lead type : Lead free flow soldering condition corresponde Adapted to the RoHS directive (2002/95/EC). 		and the set

Specifications

Item	Performance Characteristics				
Category Temperature Range	_55 ~ +105°C				
Rated Voltage Range	2.5 ~ 6.3V				
Rated Capacitance Range	470 ~ 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 minute's application of rated voltage. 20°C				
Characteristics of Temperature Impedance Ratio	Z+105°C / Z+20°C ≤ 1.25 (100kHz) Z-55°C / Z+20°C ≤ 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 \pm 20% of initial value (* 3)		
Endurance		tan δ	150% or less of the initial specified value		
Endurance		ESR (*1)	150% or less of the initial specified value		
		Leakage current (*2)	Initial specified value or less		
		Capacitance change	Within \pm 20% of initial value (* 3)		
	After 1000 hours' application of rated voltage at 60°C 90%RH, capacitors meet the specified value for life characteristics listed at right.	tan δ	150% or less of the initial specified value		
Damp Heat		ESR (*1)	150% or less of the initial specified value		
		Leakage current (*2)	Initial specified value or less		
	To comply with recommended conditions for reflow soldering. Pre-heating shall be done	Capacitance change	Within \pm 10% of initial value (* 3)		
Resistance to	at 150 ~ 200°C and for 60 ~ 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	tan δ	130% or less of the initial specified value		
Soldering Heat		ESR (*1)	130% or less of the initial specified value		
		Leakage current (*2)	Initial specified value or less		
	the soldering side of PC board.		· ·		
Marking	Navy blue print on the case top.				

(*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.

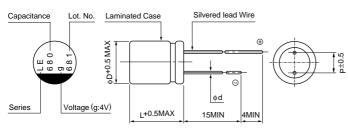
(*3) Initial value : The value before test of examination of resistance to soldering.

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Dimensions

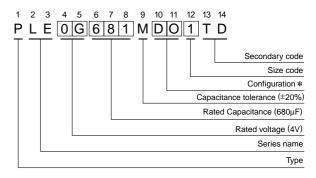


Voltage

V	2.5	4	6.3
Code	е	g	j

			(1111)
Size	Size $\phi 8 \times 9L$		$\phi 10 imes 13L$
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

Type numbering system (Example : 4V 680μ F)



*Configuration	
$\phi D \times L$	Code
8×9	CO
8 × 12	DO
10 × 13	DO

Standard ratings

Rated Voltage (V)	Rated Capacitance (µF)	Case Size ∳D × L (mm)	tan δ	Leakage Current (µA)	ESR (mΩ) (20°C / 100kHz)	Rated ripple (mArms) (105°C / 100kHz)	Code
2.5	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 imes 13	0.08	500	5	7100	PLE0E102MDO1
	1500	10 imes 13	0.08	750	5	7300	PLE0E152MDO1
4	560	8 × 9	0.08	448	5	6000	PLE0G561MCO1
	680	8 × 12	0.08	544	5	6500	PLE0G681MDO1
	820	10 imes 13	0.08	656	5	7000	PLE0G821MDO1
	1200	10 imes 13	0.08	960	5	7200	PLE0G122MDO1
6.3	470	8×12	0.08	592	5	6400	PLE0J471MDO1
	680	10 × 13	0.08	857	5	6700	PLE0J681MDO1
	820	10 imes 13	0.08	1033	5	6800	PLE0J821MDO1

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

Design, Specifications are subject to change without notice.