CONDUCTIVE POLYMER ALUMINUM SOLID ELECTROLYTIC CAPACITORS

HR

High Ripple Low Impedance For High Current Frequency

nichicon



•Ultra-low ESR, High ripple current.

- •Load life of 5000 hours at 105°C.
- Radial lead type :
- Lead free flow soldering condition correspondence.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).

Radial Lead Type, Long Life Assurance



C.

Anti-Solvent

Long Life



Specifications

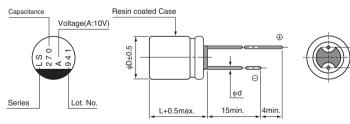
Item	Performance Characteristics								
Category Temperature Range	-55 to +105°C								
Rated Voltage Range	2.5 to 16V								
Rated Capacitance Range	100 to 1500µF								
Capacitance Tolerance	±20% at 120Hz, 20°C								
Tangent of loss angle (tan δ)	Less than or equal to the specified value at 120Hz, 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)	$Z(+105^{\circ}C) / Z(+20^{\circ}C) \leq 1.25$ (100kHz) $Z(-55^{\circ}C) / Z(+20^{\circ}C) \leq 1.25$								
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 5000 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 value150% or less than the initial specified valueLess 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 \pm 20% of the initial capacitance value (\approx 3)150% or less than the initial specified value150% or less than the initial specified valueLess than or equal to 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.	Capacitance change tan δ ESR (\approx 1) Leakage current (\approx 2)	Within \pm 10% of the initial capacitance value (\approx 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.

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

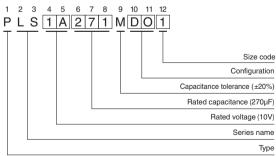
Dimensions



						(mm)
Size	φ6.3 × 9L	φ6.3 × 10.5L	φ8 × 7L	φ8 × 9L	φ8 × 12L	φ10 × 13L
φD	6.3	6.3	8.0	8.0	8.0	10.0
Ĺ	8.5	10.0	6.5	8.5	11.5	12.5
Р	2.5	2.5	3.5	3.5	3.5	5.0
φd	0.6	0.5	0.6	0.6	0.6	0.6

Please refer to the Guidelines for Aluminum Electrolytic Capacitors for end seal configuration information.

Type numbering system (Example : 10V 270µF)

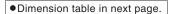


m)	Voltage

V	2.5	4	6.3	10	16
Code	е	g	j	Α	С

• 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 _{\$\$\phi D\$ × L (mm)}	tan δ	Leakage Current (µA) (at 20°C after 2 minutes)	ESR (mΩ) (20°C/100kHz)	Rated Ripple (mArms) (105°C/100kHz)	Part Number
2.5	2.8	330	O 6.3 × 9	0.08	500	8	4800	PLS0E331MCO8
		680	\triangle 8 × 7	0.08	340	15	3900	PLS0E681MCL2
		820	○ 6.3×9	0.08	500	8	4800	PLS0E821MCO8
(0E)		820	▲ 8×9	0.08	410	7	5200	PLS0E821MCO6
		820	8 × 12	0.08	410	7	5800	PLS0E821MDO1
		1500	10 × 13	0.08	750	8	5500	PLS0E152MDO1
		270	○ 6.3×9	0.08	500	8	4800	PLS0G271MCO8
	4.6	560	\triangle 8 × 7	0.08	448	15	3900	PLS0G561MCL2
4 (0G)		560	▲ 8×9	0.08	448	7	5200	PLS0G561MCO6
(00)		680	8 × 12	0.08	544	7	5800	PLS0G681MDO1
		1200	10 × 13	0.08	960	8	5500	PLS0G122MDO1
	7.2	330	■ 6.3 × 10.5	0.08	416	20	3000	PLS0J331MDL4
		390	\triangle 8 × 7	0.08	491	15	3900	PLS0J391MCL2
6.3		470	8 × 12	0.08	592	7	5500	PLS0J471MDO1
(U)		560	○ 6.3×9	0.08	706	9	4300	PLS0J561MCO8
		560	▲ 8×9	0.08	706	8	5000	PLS0J561MCO6
		820	10 × 13	0.08	1033	8	5500	PLS0J821MDO1
	11.5	150	■ 6.3 × 10.5	0.08	300	20	3000	PLS1A151MDL4
10 (1A)		270	8 × 12	0.08	540	8	4900	PLS1A271MDO1
		470	10 × 13	0.08	940	8	5500	PLS1A471MDO1
16 (1C)	18.4	100	■ 6.3 × 10.5	0.08	320	24	2800	PLS1C101MDL4
		270	8 × 12	0.08	864	9	4500	PLS1C271MDO1
		330	10 × 13	0.08	1056	9	4700	PLS1C331MDO1
		470	10 × 13	0.08	1504	9	4700	PLS1C471MDO1

No marked, ① will be put at 12th digit of type numbering system. △: In this case, ② will be put at 12th digit of type numbering system. ■: In this case, ④ will be put at 12th digit of type numbering system. ▲: In this case, ⑥ will be put at 12th digit of type numbering system.

• For formed lead or taped product specifications and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.

o: In this case, 8 will be put at 12th digit of type numbering system.