

FPCAP Functional Polymer Aluminum Solid Electrolytic Capacitors

SL & SH series

Features

By using Functional Polymer cathode, Frequency & Temp. characteristics are greatly improved.

- Low ESR at a high frequency range.
- High ripple current capability.
- Low profile type. (Height : 4.5mmMax. & 5mmMax.)

Applications

- Switching Power Supply and DC/DC Converter.
- Buck up Power Supplies of CPU (VRM etc.)
- Miniature high Power Supply.

Environmental Correspondence

- Any environmental hazardous substances are not used.
- The lead free of terminal plating (Sn 100%)

Specifications

Items		Characteristic
		SL & SH
Operating temp. range		-55 to +105°C
Rated voltage range		2.5 to 16V-DC
Capacitance range		15 to 390μF
Capacitance tolerance		±20% (M)
Endurance	Test condition	105°C, rated voltage 2000Hrs.
	Capacitance	Within ±20% of initial value before test
	Leakage current	Not to exceed the initial specified value
	ESR	Not to exceed 150% of initial specified value
	tan δ	Not to exceed 150% of initial specified value
Failure Rate		0.5% / 1000Hrs. Max (60%CL)

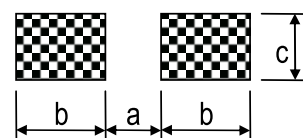
Size (ESR) List

		[φD×L (mΩ)]					
Cap. [μF]	R.V. (S.V.) [V]	2.5 (2.8)		6.3 (7.2)		16 (18.4)	
		SL	SH	SL	SH	SL	SH
15						6.3×4.2 (45)	
100		6.3×4.2 (16)		6.3×4.2 (18)			
150				6.3×4.2 (18)			
220		6.3×4.2 (16)		6.3×4.2 (18)			
270					6.3×4.7 (20)		
330		6.3×4.2 (16)					
390			6.3×4.7 (20)				

Low Profile	4.5mmMax 5.0mmMax	φ6.3
Large Capacitance	Lead-free	RoHS Compliance



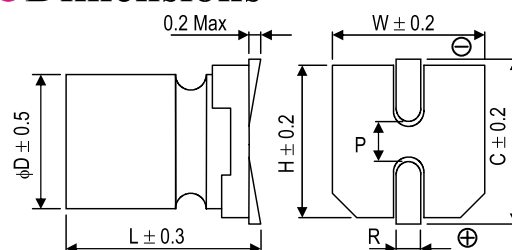
Recommended land pattern



[Unit: mm]

φD	a	b	c
6.3	2.1	3.5	1.6

Dimensions



[Unit: mm]

φD×L	W	H	C	R	P
6.3×4.2	6.5	6.5	7.2	0.5 to 0.9	2.1
6.3×4.7	6.5	6.5	7.2	0.5 to 0.9	2.1

● Part number & Specifications

Rated Voltage (V)	Rated Capacitance (μ F, 120Hz)	Part Number		Leakage Current * (μ A, 2 min)	tan δ (120Hz)	ESR (m Ω , 100kHz)	Rated Ripple Current (mA, r.m.s.)	Case Size ϕ D \times L(mm)
		NICHICON	FPCAP					
2.5	100	RSL0E101MCN1GB	FP-2R5ME101M-SLR	300	0.12	16	3500	6.3 \times 4.2
	220	RSL0E221MCN1GB	FP-2R5ME221M-SLR	300	0.12	16	3500	6.3 \times 4.2
	330	RSL0E331MCN1GB	FP-2R5ME331M-SLR	413	0.12	16	3500	6.3 \times 4.2
	390	RSH0E391MCN1GB	FP-2R5ME391M-SHR	488	0.12	20	3000	6.3 \times 4.7
6.3	100	RSL0J101MCN1GB	FP-6R3ME101M-SLR	315	0.12	18	3200	6.3 \times 4.2
	150	RSL0J151MCN1GB	FP-6R3ME151M-SLR	473	0.12	18	3200	6.3 \times 4.2
	220	RSL0J221MCN1GB	FP-6R3ME221M-SLR	693	0.12	18	3200	6.3 \times 4.2
	270	RSH0J271MCN1GB	FP-6R3ME271M-SHR	851	0.12	20	3000	6.3 \times 4.7
16	15	RSL1C150MCN1GB	FP-016ME150M-SLR	300	0.12	45	1900	6.3 \times 4.2

* In case of some doubt about measured values, measure after applying rated voltage for 120 minutes at 105°C.

● Part Number (EX) 2.5V, 330 μ F, SL series

R	SL	0E	331	M	CN	1	GB
Type	Series name	Rated Voltage	Rated Capacitance	Capacitance Tolerance	Configuration	Control code	Taping code

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[RSH0E391MCN1GB](#)