

FPCAP Functional Polymer Aluminum Solid Electrolytic Capacitors

SL 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.)

Applications

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

Environmental Correspondence

Corresponding to Lead-free, RoHS compliance and Halogen-free.

- The Lead-free of terminal plating (Sn)

Specifications

Items		Characteristic
		SL
Operating temp. range		-55 to +105°C
Rated voltage range		2.5 to 25V-dc
Capacitance range		15 to 330 μ F
Capacitance tolerance		$\pm 20\%$ (M)
Endurance	Test condition	105°C, rated voltage 2000Hrs.
	Capacitance	Within $\pm 20\%$ of initial value before test
	Leakage current	Not to exceed the initial specified value
	ESR	Not to exceed 150% of initial specified value
	$\tan \delta$	Not to exceed 150% of initial specified value
Failure Rate		0.5% / 1000Hrs. Max (60%CL)

Size (ESR) List

[$\phi D \times L$ (m Ω)]

R.V. (S.V.) Cap. [μ F]	2.5 (2.8)	6.3 (7.2)	16 (18.4)	25 (28.7)
15			6.3 $\times$ 4.2 (45)	6.3 $\times$ 4.2 (55)
100	6.3 $\times$ 4.2 (16)	6.3 $\times$ 4.2 (18)		
150		6.3 $\times$ 4.2 (18)		
220	6.3 $\times$ 4.2 (16)	6.3 $\times$ 4.2 (18)		
330	6.3 $\times$ 4.2 (16)			

Low Profile

4.5mmMax

$\phi 6.3$

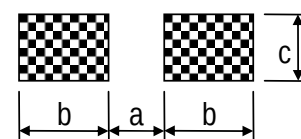
Large
Capacitance

Lead-free

RoHS
Compliance



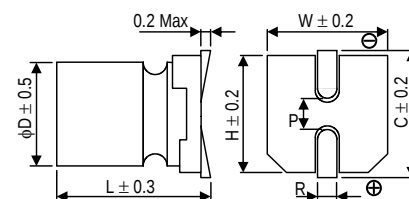
Recommended land pattern



[Unit: mm]

ϕD	a	b	c
6.3	2.1	3.5	1.6

Dimensions



[Unit: mm]

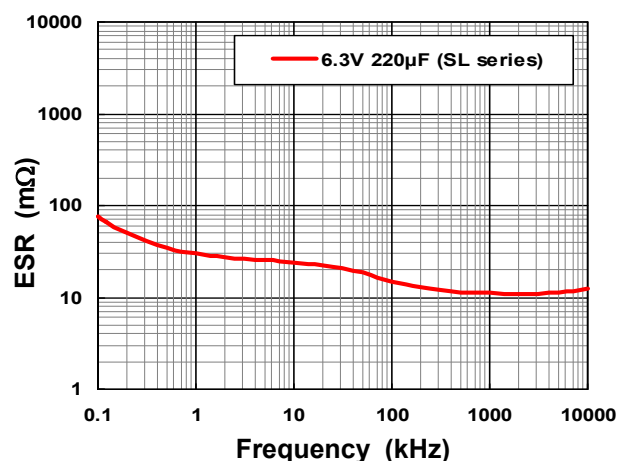
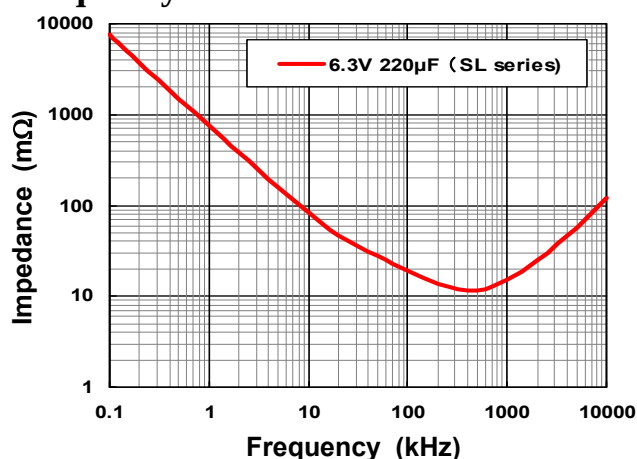
$\phi D \times L$	W	H	C	R	P
6.3 $\times$ 4.2	6.5	6.5	7.2	0.5 to 0.9	2.1

Part number & Specifications

Rated Voltage (V)	Rated Capacitance (μ F, 120Hz)	Part Number		Leakage Current * (μ A, 2 min)	$\tan\delta$ (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
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
16	15	RSL1C150MCN1GB	FP-016ME150M-SLR	300	0.12	45	1900	6.3 $\times$ 4.2
25	15	RSL1E150MCN1GB	FP-025ME150M-SLR	100	0.12	55	1700	6.3 $\times$ 4.2

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

Frequency Characteristics



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

Nichicon P/N

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

FPCAP P/N

FP	2R5	ME	331	M	SL	R	
Commodity Mark	Rated Voltage	Classification	Rated Capacitance	Capacitance Tolerance	Series Name	Taping Code	Control Code