

FPCAP Functional Polymer Aluminum Solid Electrolytic Capacitors

FS series

Features

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

- Low ESR at a high frequency range.
- High ripple current capability.
- Long life and high reliability.

Applications

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

Environmental Correspondence

Any environmental hazardous substances are not used.

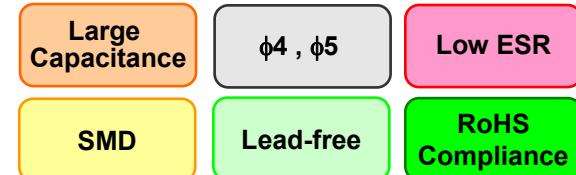
- The lead free of terminal plating (Sn 100%)

Specifications

Items	Characteristic					
	FS					
Operating temp. range	-55 to +105°C					
Rated voltage range	2.5 to 25Vdc					
Capacitance range	10 to 180μF					
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 List

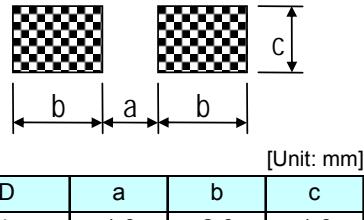
R.V. (S.V.) [V]	2.5 (2.8)	4.0 (4.6)	6.3 (7.2)	10 (11.5)	16 (18.4)	25 (28.7)
Cap. [μF]				4×5.2		
10						
22					5×5.7	5×5.7
33					5×5.7	
39					5×5.7	
47			5×5.7			
68				5×5.7		
100		5×5.7	5×5.7			
120			5×5.7			
150		5×5.7				
180	5×5.7					



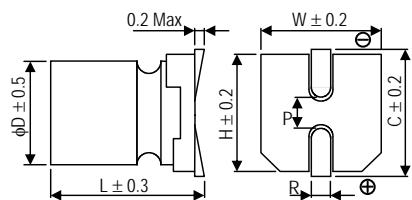
UPGRADE



Recommended land pattern



Dimensions



ΦD×L	W	H	C	R	P
4×5.2	4.3	4.3	5.1	0.5 to 0.9	1.0
5×5.7	5.3	5.3	5.9	0.5 to 0.9	1.4

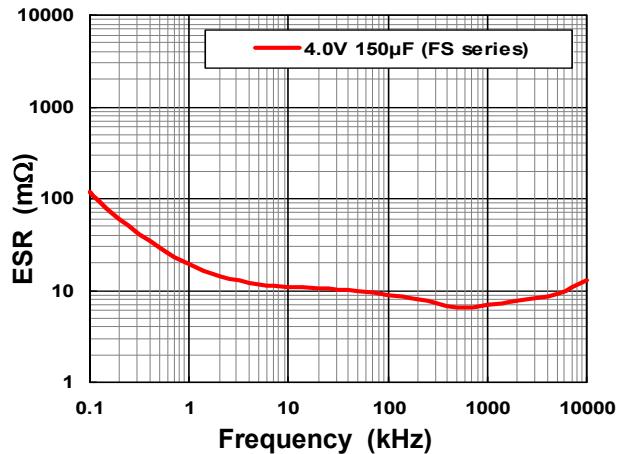
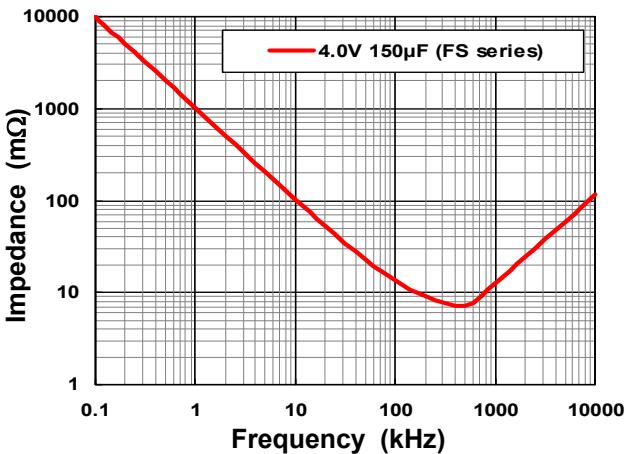
[Unit: mm]

● Part number & Specifications

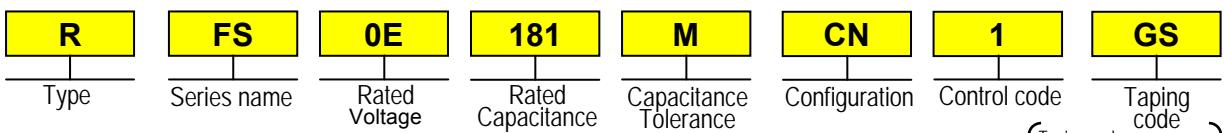
Rated Voltage (V)	Rated Capacitance (μF, 120Hz)	Part Number		Leakage Current * (μA, 2 min)	tanδ (120Hz)	ESR (mΩ, 100kHz)	Rated Ripple Current (mA, r.m.s.)	Case Size ΦD×L(mm)
		NICHICON	FPCAP					
2.5	180	RFS0E181MCN1GS	FP-2R5ME181M-FSR	300	0.12	21	2670	5 × 5.7
4.0	100	RFS0G101MCN1GS	FP-4R0ME101M-FSR	300	0.12	22	2610	5 × 5.7
	150	RFS0G151MCN1GS	FP-4R0ME151M-FSR	300	0.12	22	2610	5 × 5.7
6.3	47	RFS0J470MCN1GS	FP-6R3ME470M-FSR	300	0.12	30	2000	5 × 5.7
	100	RFS0J101MCN1GS	FP-6R3ME101M-FSR	300	0.12	24	2500	5 × 5.7
	120	RFS0J121MCN1GS	FP-6R3ME121M-FSR	300	0.12	24	2500	5 × 5.7
10	10	RFS1A100MCN1GB	FP-010ME100M-FSR	100	0.12	220	700	4 × 5.2
	68	RFS1A680MCN1GS	FP-010ME680M-FSR	300	0.12	30	2000	5 × 5.7
16	22	RFS1C220MCN1GS	FP-016ME220M-FSR	100	0.12	45	1210	5 × 5.7
	33	RFS1C330MCN1GS	FP-016ME330M-FSR	105	0.12	35	2070	5 × 5.7
	39	RFS1C390MCN1GS	FP-016ME390M-FSR	125	0.12	35	2070	5 × 5.7
25	22	RFS1E220MCN1GS	FP-025ME220M-FSR	300	0.12	40	2200	5 × 5.7

* 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, 180μF, FS series Nichicon P/N



FPCAP P/N

