

FPCAP Functional Polymer Aluminum Solid Electrolytic Capacitors



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.
- 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%)

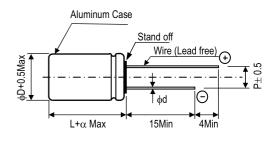
Specifications

Items		Characteristics		
		R5		
Operating Temp. Range		- 55 to + 105°C		
Rated Voltage Range		2.5 to 6.3V⋅pc		
Capacitance Range		390 to 1500μF		
Capacitance Tolerance		± 20% (M)		
	Condition	105°C 2000Hrs at rated voltage		
Endurance	Capacitance	Within ± 20% of the value before test		
Lilidurance	Leakage Current	Not to exceed the value specified		
	tan δ	Not to exceed 150% of the value specified		
Failure Rate		0.1% / 1000Hrs. Max (60%CL)		

Size List

			[φD×L]
R.V (S.V.) [V] Cap. [µF]	2.5 (2.8)	4.0 (4.6)	6.3 (7.2)
390			8×11.5
470			
560	8×11.5	8×11.5	
680	8×11.5		10×12.5
820	8×11.5	10×12.5	10×12.5
1000	8×11.5		
1200		10×12.5	
1500	10×12.5		

Dimensions



	Jnit : mm]		
$\phi D \times L$	φd	Р	α
8×11.5	0.6	3.5	1.5
10×12.5	0.6	5.0	1.5

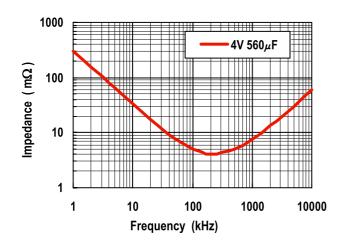


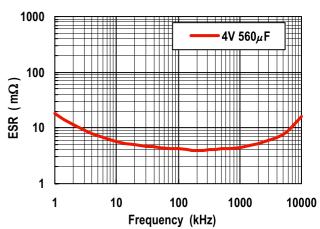
Part number & Specifications

Rated Voltage	Rated Capacitance	Part Number		Leakage Current *	tanδ	ESR	Rated Ripple Current	Case Size
(V)	(µF, 120Hz)	NICHICON	FPCAP	(µA, 2 min)	(120Hz)	(mΩ, 100kHz)	(mA, r.m.s.)	φD×L(mm)
	560	RR50E561MDN1□□	FP-2R5RE561M-R5□□	350	0.15	5	6630	8 × 11.5
	680	RR50E681MDN1□□	FP-2R5RE681M-R5□□	425	0.15	5	6630	8 × 11.5
2.5	820	RR50E821MDN1□□	FP-2R5RE821M-R5□□	513	0.15	5	6630	8 × 11.5
	1000	RR50E102MDN1□□	FP-2R5RE102M-R5□□	625	0.15	5	6630	8 × 11.5
	1500	RR50E152MDN1□□	FP-2R5RE152M-R5□□	938	0.15	5	7220	10 × 12.5
	560	RR50G561MDN1□□	FP-4R0RE561M-R5□□	560	0.15	5	6630	8 × 11.5
4.0	820	RR50G821MDN1□□	FP-4R0RE821M-R5□□	820	0.15	5	7220	10 × 12.5
	1200	RR50G122MDN1□□	FP-4R0RE122M-R5□□	1200	0.15	5	7220	10 × 12.5
	390	RR50J391MDN1□□	FP-6R3RE391M-R5□□	614	0.15	5	6630	8 × 11.5
6.3	680	RR50J681MDN1□□	FP-6R3RE681M-R5□□	1071	0.15	5	7220	10 × 12.5
	820	RR50J821MDN1□□	FP-6R3RE821M-R5□□	1292	0.15	5	7220	10 × 12.5

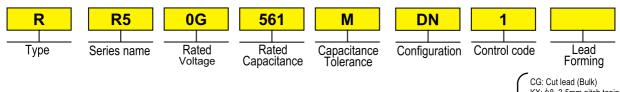
^{*} In case offsome doubt about measured values, measure after applying rated voltage for 120 minutes at 105°C.

Frequency Characteristics





●Part Number (EX) 4V, 560μF



CG: Cut lead (Bulk) KX: φ8, 3.5mm pitch taping PX: φ8, 5.0mm pitch taping PH: φ10, 5.0mm pitch taping

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Nichicon:

<u>RR50E102MDN1</u> <u>RR50E152MDN1</u> <u>RR50E561MDN1</u> <u>RR50E681MDN1</u> <u>RR50E821MDN1</u> <u>RR50G122MDN1</u> <u>RR50G561MDN1</u> <u>RR50G821MDN1</u> <u>RR50J391MDN1</u> <u>RR50J681MDN1</u> <u>RR50J821MDN1</u> <u>RR50J471MDN1KX</u> RR50E681MDN1KX RR50E102MDN1KX RR50G561MDN1PX RR50J681MDN1PH