

FPCAP Functional Polymer Aluminum Solid Electrolytic Capacitors

E5 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

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

The Lead-free of terminal plating (Sn)

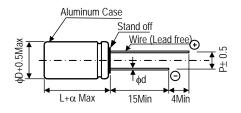
Specifications

Items		Characteristics		
		E5		
Operating Temp. Range		- 55 to + 105°C		
Rated Voltage Range		2.5 to 4.0V·DC		
Capacitance Range		560 to 820μF		
Capacitance Tolerance		± 20% (M)		
Endurance	Condition	105°C 2000Hrs at rated voltage		
	Capacitance	Within ± 20% of the value before test		
	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)		

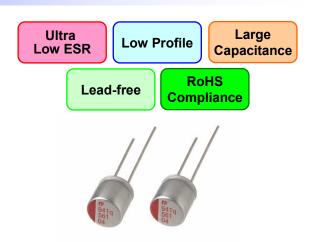
Size List

S-22 - 25 - 25 - 25 - 25 - 25 - 25 - 25	[4=		
R.V (S.V.) [V] Cap. [µF]	2.5 (2.8)	4.0 (4.6)	
560	8×8	8×8	
820	8×8		

Dimensions



[Unit : mm						
φD×L	φd	Р	α			
8×8	0.6	3.5	1.0			

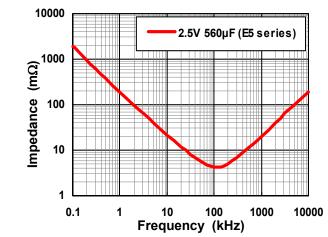


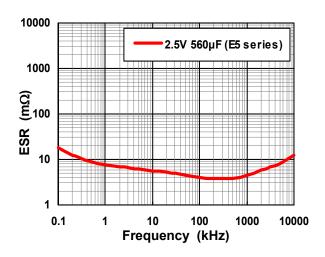
Part number & Specifications

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.)	_φ D×L(mm)
2.5	560	RE50E561MDN1□□	FP-2R5RE561M-E5□□	500	0.10	5	6300	8 × 8
2.5	820	RE50E821MDN1□□	FP-2R5RE821M-E5□□	513	0.10	5	6300	8 × 8
4.0	560	RE50G561MDN1□□	FP-4R0RE561M-E5□□	560	0.10	5	6300	8 × 8

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

Frequency Characteristics





Part Number (EX) 4V, 560μF

