

FPCAP Functional Polymer Aluminum Solid Electrolytic Capacitors

E5 series

Ultra Low ESR

Low Profile

Large Capacitance

Lead-free

RoHS Compliance

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

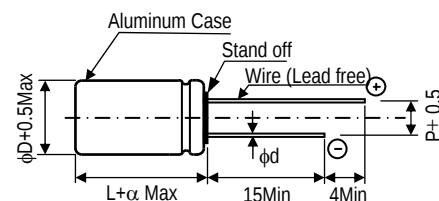
Items		Characteristics
		E5
Operating Temp. Range		- 55 to + 105°C
Rated Voltage Range		2.5 to 4.0V·DC
Capacitance Range		560 to 820μF
Capacitance Tolerance		± 20% (M)
Endurance	Condition	105°C 2000Hrs at rated voltage
	Capacitance	Within ± 20% of the value before test
	Leakage Current	Not to exceed the value specified
	tan δ	Not to exceed 150% of the value specified
Failure Rate		0.1% / 1000Hrs. Max (60%CL)

Size List

[φD×L]

R.V (S.V.) [V]	2.5 (2.8)	4.0 (4.6)
Cap. [μF]		
560	8×8	8×8
820	8×8	

Dimensions



[Unit : mm]

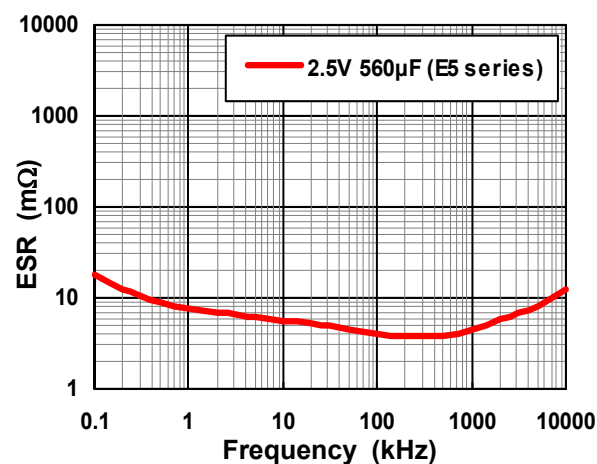
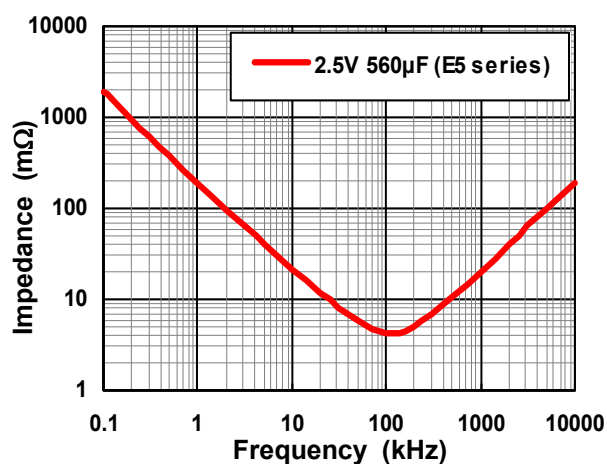
φD×L	φd	P	α
8×8	0.6	3.5	1.0

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	560	RE50E561MDN1□□	FP-2R5RE561M-E5□□	500	0.10	5	6300	8 $\times$ 8
	820	RE50E821MDN1□□	FP-2R5RE821M-E5□□	513	0.10	5	6300	8 $\times$ 8
4.0	560	RE50G561MDN1□□	FP-4R0RE561M-E5□□	560	0.10	5	6300	8 $\times$ 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, 560 μ F

Nichicon P/N

R	E5	0G	561	M	DN	1	
Type	Series Name	Rated Voltage	Rated Capacitance	Capacitance Tolerance	Configuration	Control Code	Lead Forming

CG: Cut lead (Bulk)
KX: ϕ 8, 3.5mm pitch taping
PX: ϕ 8, 5.0mm pitch taping

FPCAP P/N

FP	4R0	RE	561	M	E5	R	
Commodity Mark	Rated Voltage	Classification	Rated Capacitance	Capacitance Tolerance	Series Name	Lead Forming	Control Code

R: Long lead (Bulk)
CG: Cut lead (Bulk)
K : ϕ 8, 3.5mm pitch taping
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