

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.
- 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%)

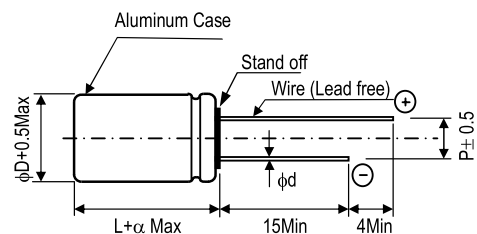
● Specifications

Items	Characteristics	
	E5	
Operating Temp. Range	- 55 to + 105°C	
Rated Voltage Range	2.5 to 4V-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

R.V (S.V.) Cap. [μF]	[φD×L]		
	2.5 (2.8)	4.0 (4.6)	6.3 (7.2)
560	8×8	8×8	
820	8×8		

● Dimensions



[Unit : mm]

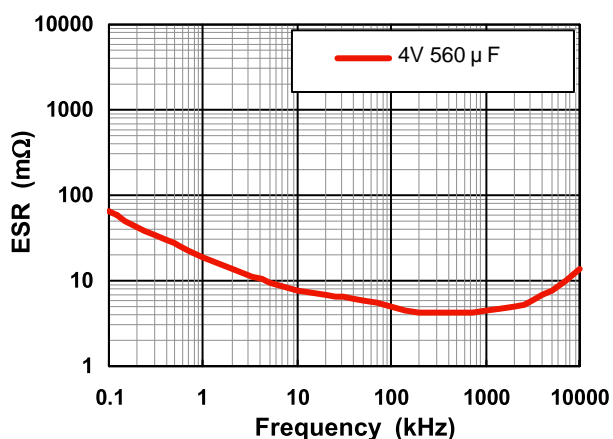
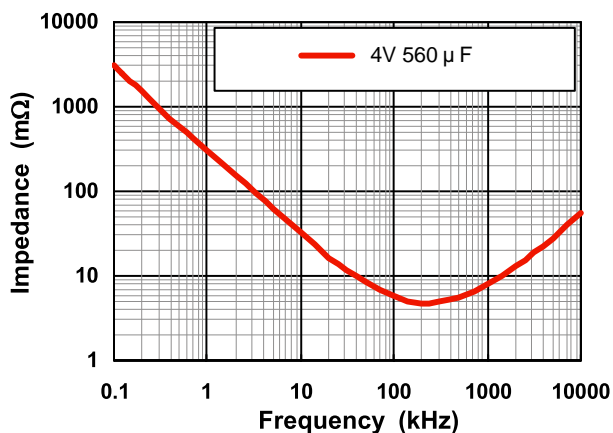
φD×L	φd	P	α
8×8	0.6	3.5	1.0

● Part number & Specifications

Rated Voltage (V)	Rated Capacitance (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	560	RE50E561MDN1□□	FP-2R5RE561M-E5□□	500	0.10	5	6300	8 × 8
	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

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: φ8, 3.5mm pitch taping
 PX: φ8, 5.0mm pitch taping