

FPCAP Functional Polymer Aluminum Solid Electrolytic Capacitors

S8 series

Ultra Low ESR	Large Capacitance	Low ESL
Iron Lead	Lead-free	RoHS Compliance

ADDITION



Features

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

- Low ESR and **Low ESL** 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

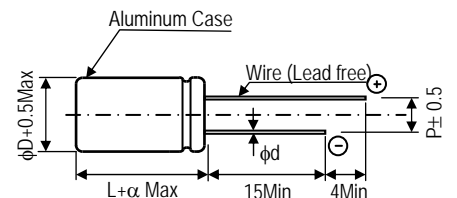
Items	Characteristics	
	S8	
Operating Temp. Range	- 55 to + 105°C	
Rated Voltage Range	2.5 to 6.3V·DC	
Capacitance Range	330 to 820μF	
Capacitance Tolerance	± 20% (M)	
Endurance	Condition	105°C 2000Hrs at rated voltage
	Capacitance	Within ± 20% of the value before test
	Leakage Current	Not to exceed 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]

Cap. [μF]	R.V (S.V.) [V]	2.5 (2.8)	4.0 (4.6)	6.3 (7.2)	16 (18.4)
	100				
270					
330				6.3×8	
470				6.3×8	
560				6.3×8	
680				6.3×8	
820		6.3×8		6.3×8	
1200					

Dimensions



[Unit : mm]

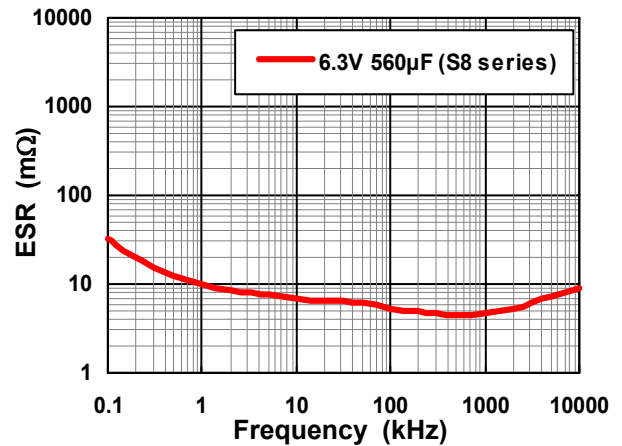
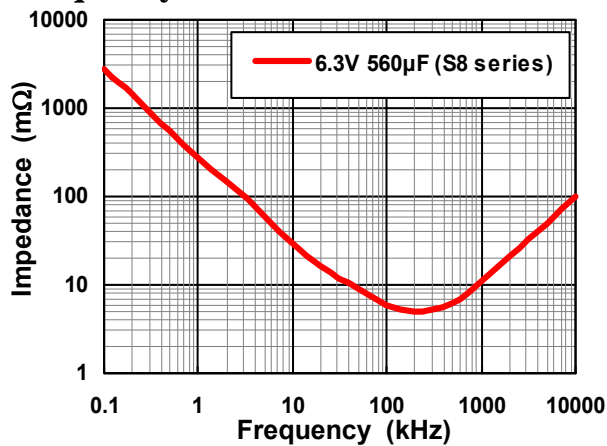
φD×L	φd	P	α
6.3×8	0.6	2.5	0.5

● 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	820	RS80E821MCS1□□	FP-2R5RE821M-S8□□-FEH	512	0.10	7	5600	6.3 \times 8
6.3	330	RS80J331MCS1□□	FP-6R3RE331M-S8□□-FEH	519	0.10	8	5000	6.3 \times 8
	470	RS80J471MCS1□□	FP-6R3RE471M-S8□□-FEH	740	0.10	8	5000	6.3 \times 8
	560	RS80J561MCS1□□	FP-6R3RE561M-S8□□-FEH	882	0.10	8	5000	6.3 \times 8
	680	RS80J681MCS1□□	FP-6R3RE681M-S8□□-FEH	1071	0.10	8	4700	6.3 \times 8
	820	RS80J821MCS1□□	FP-6R3RE821M-S8□□-FEH	1292	0.10	8	4700	6.3 \times 8

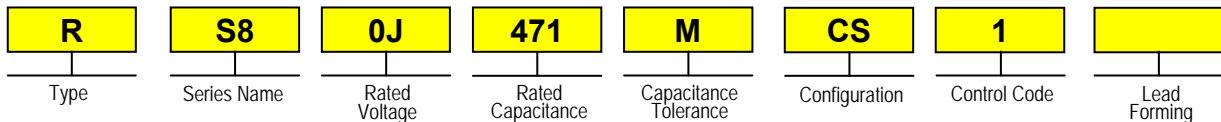
* In case of some doubt about measured values, measure after applying rated voltage for 120 minutes at 105°C.

● Frequency Characteristics



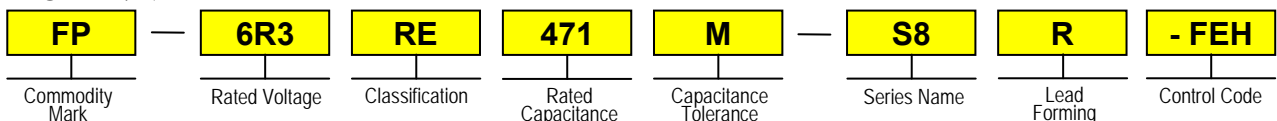
● Part Number (EX) 6.3V, 470 μ F (Iron Lead and Flat Rubber)

Nichicon P/N



CG: Cut lead (Bulk)
JT: ϕ 6.3x8, 2.5mm pitch taping
PX: ϕ 6.3x8, 5.0mm pitch taping

FPCAP P/N



R: Long lead (Bulk)
CG: Cut lead (Bulk)
JT: ϕ 6.3x8, 2.5mm pitch taping
P : ϕ 6.3x8, 5.0mm pitch taping

-FEH : Iron Lead & Flat Rubber