

FPCAP Functional Polymer Aluminum Solid Electrolytic Capacitors

S8 series

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

Any environmental hazardous substances are not used.

- The lead free of terminal plating (Sn 100%)

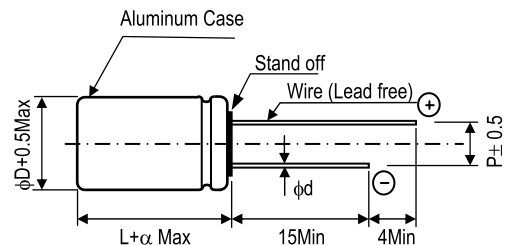
Specifications

Items	Characteristics	
	S8	
Operating Temp. Range	- 55 to + 105°C	
Rated Voltage Range	2.5 to 16V _{dc}	
Capacitance Range	100 to 1200 μ F	
Capacitance Tolerance	\pm 20% (M)	
Endurance	Condition	105°C 2000/5000Hrs at rated voltage
	Capacitance	Within \pm 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

Cap. [μ F]	R.V(S.V.) [V]				[ϕ D \times L]
	2.5 (2.8)	4.0 (4.6)	6.3 (7.2)	16 (18.4)	
100					6.3 \times 8
270					6.3 \times 8
330	6.3 \times 8		6.3 \times 8		
470	6.3 \times 8		6.3 \times 8		
560	6.3 \times 8	6.3 \times 8	6.3 \times 8		
820	6.3 \times 8				
1200	6.3 \times 8				

Dimensions



[Unit : mm]

ϕ D \times L	ϕ d	P	α
6.3 \times 8	0.6	2.5	1.0

Ultra Low ESR

Large Capacitance

Endurance 2000/5000hrs

Low ESL

Lead-free

RoHS Compliance

UPGRADE

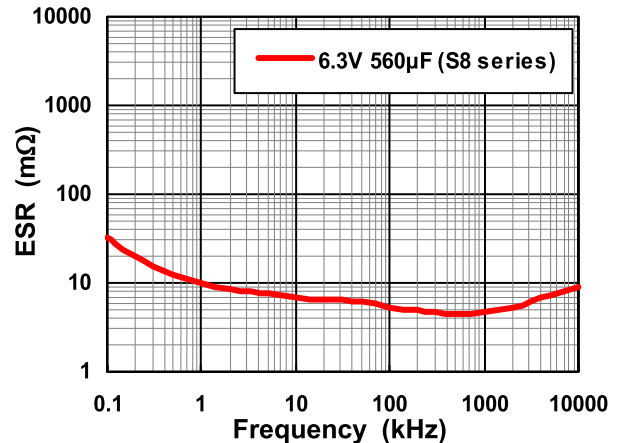
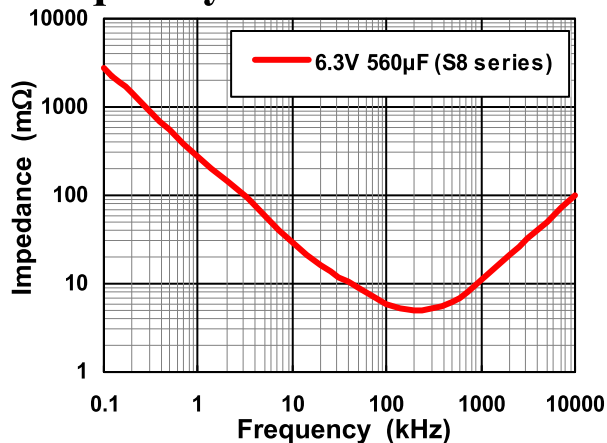


● Part number & Specifications

Rated Voltage (V)	Rated Capacitance (μ F, 120Hz)	Part Number		Leakage Current * (μ A, 2 min)	tan δ (120Hz)	ESR (m Ω , 100kHz)	ESL (Typ.) (nH, 10MHz)	Rated Ripple Current (mA, r.m.s.)	Case Size ϕ D \times L(mm)
		NICHICON	FPCAP						
2.5	330	RS80E331MDN1□□	FP-2R5RE331M-S8□□	500	0.10	7	2	5600	6.3 \times 8
	** 330	RS80E331MDNASQ□□	FP-2R5RE331M-S8□□-5K	500	0.10	7	2	5600	6.3 \times 8
	470	RS80E471MDN1□□	FP-2R5RE471M-S8□□	500	0.10	7	2	5600	6.3 \times 8
	** 470	RS80E471MDNASQ□□	FP-2R5RE471M-S8□□-5K	500	0.10	7	2	5600	6.3 \times 8
	560	RS80E561MDN1□□	FP-2R5RE561M-S8□□	500	0.10	7	2	5600	6.3 \times 8
	** 560	RS80E561MDNASQ□□	FP-2R5RE561M-S8□□-5K	500	0.10	7	2	5600	6.3 \times 8
	820	RS80E821MDN1□□	FP-2R5RE821M-S8□□	512	0.10	7	2	5600	6.3 \times 8
	** 820	RS80E821MDNASQ□□	FP-2R5RE821M-S8□□-5K	512	0.10	7	2	5600	6.3 \times 8
4.0	1200	RS80E122MDN1□□	FP-2R5RE122M-S8□□	750	0.10	7	2	5600	6.3 \times 8
	** 560	RS80G561MDN1□□	FP-4R0RE561M-S8□□	560	0.10	7	2	5000	6.3 \times 8
6.3	** 560	RS80G561MDNASQ□□	FP-4R0RE561M-S8□□-5K	560	0.10	7	2	5000	6.3 \times 8
	330	RS80J331MDN1□□	FP-6R3RE331M-S8□□	519	0.10	8	2	5000	6.3 \times 8
6.3	** 330	RS80J331MDNASQ□□	FP-6R3RE331M-S8□□-5K	519	0.10	8	2	5000	6.3 \times 8
	470	RS80J471MDN1□□	FP-6R3RE471M-S8□□	740	0.10	8	2	5000	6.3 \times 8
	** 470	RS80J471MDNASQ□□	FP-6R3RE471M-S8□□-5K	740	0.10	8	2	5000	6.3 \times 8
	560	RS80J561MDN1□□	FP-6R3RE561M-S8□□	882	0.10	8	2	5000	6.3 \times 8
	** 560	RS80J561MDNASQ□□	FP-6R3RE561M-S8□□-5K	882	0.10	8	2	5000	6.3 \times 8
16	100	RS81C101MDN1□□	FP-016RE101M-S8□□	500	0.10	14	2	3800	6.3 \times 8
	270	RS81C271MDN1□□	FP-016RE271M-S8□□	1296	0.10	15	2	3800	6.3 \times 8

* In case of some doubt about measured values, measure after applying rated voltage for 120 minutes at 105°C.
 ** Endurance 5000hrs product.

● Frequency Characteristics



● Part Number (EX) 2.5V, 820 μ F, 5000hrs (Endurance) Nichicon P/N

R	S8	0E	821	M	DN	ASQ	
Type	Series name	Rated Voltage	Rated Capacitance	Capacitance Tolerance	Configuration	Control code	Lead Forming

FPCAP P/N

FP	2R5	RE	821	M	S8	R	-5K
Commodity Mark	Rated Voltage	Classification	Rated Capacitance	Capacitance Tolerance	Series name	Lead Forming	Control code

ASQ : 5000hrs
 1 : 2000hrs
 CG: Cut lead (Bulk)
 JT: ϕ 6.3, 2.5mm pitch taping
 PX: ϕ 6.3x8, 5.0mm pitch taping

R: Long lead (Bulk)
 CG: Cut lead (Bulk)
 JT: ϕ 6.3x8, 2.5mm pitch taping
 P : ϕ 6.3x8, 5.0mm pitch taping
 -5K : 5000hrs
 Without -5K: 2000hrs