

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%)

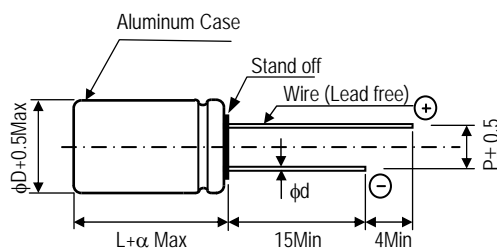
● Specifications

Items		Characteristics
		S8
Operating Temp. Range		- 55 to + 105°C
Rated Voltage Range		2.5 to 16V _{DC}
Capacitance Range		100 to 1200μF
Capacitance Tolerance		± 20% (M)
Endurance	Condition	105°C 2000/5000Hrs 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)	16 (18.4)
100				6.3×8	
270				6.3×8	
330	6.3×8			6.3×8	
470	6.3×8			6.3×8	
560	6.3×8	6.3×8		6.3×8	
820	6.3×8				
1200	6.3×8				

● Dimensions



[Unit : mm]

φD×L	φd	P	α
6.3×8	0.6	2.5	1.0

Ultra
Low ESR

Large
Capacitance

Endurance
2000/5000hrs

Low ESL

Lead-free

RoHS
Compliance

UPGRADE

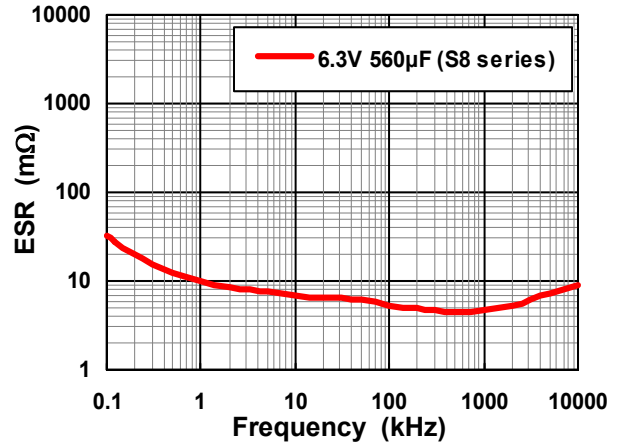
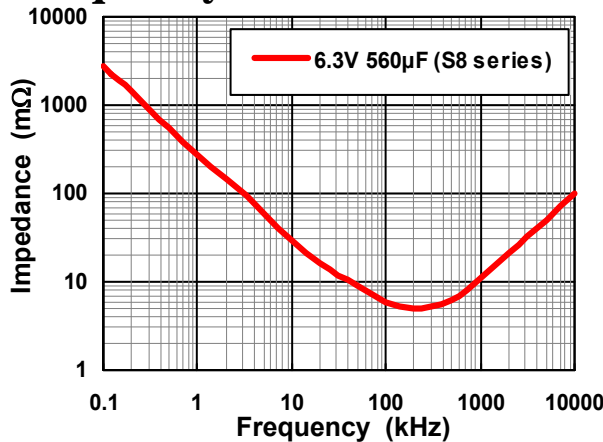


● Part number & Specifications

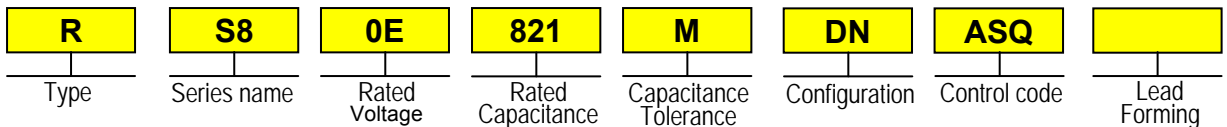
Rated Voltage (V)	Rated Capacitance (μ F, 120Hz)	Part Number		Leakage Current * (μ A, 2 min)	tan δ (120Hz)	ESR (m Ω , 100kHz)	ESL (Typ.) (nH, 10MHz)	Rated Ripple Current (mA, r.m.s.)	Case Size ϕ D \times L(mm)
		NICHICON	FPCAP						
2.5	330	RS80E331MDN1□□	FP-2R5RE331M-S8□□	500	0.10	7	2	5600	6.3 \times 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
	** 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
16	** 560	RS80J561MDNASQ□□	FP-6R3RE561M-S8□□-5K	882	0.10	8	2	5000	6.3 \times 8
	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.

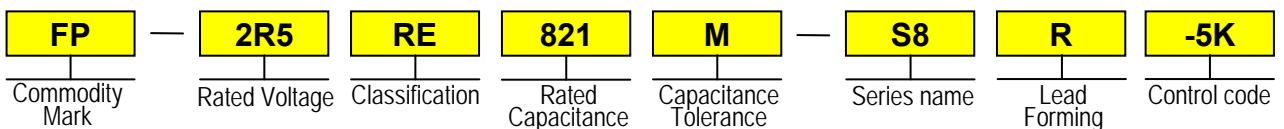
● Frequency Characteristics



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



FPCAP P/N



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

Mouser Electronics

Authorized Distributor

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[RS80J681MCN1JT](#)