

# FPCAP *Functional Polymer Aluminum Solid Electrolytic Capacitors*

## L8 series

### ● 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

Any environmental hazardous substances are not used.

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

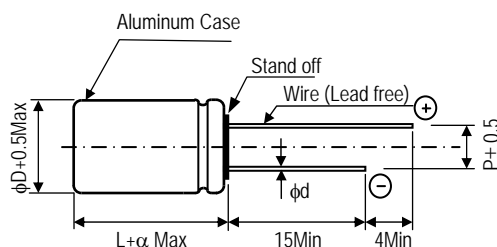
### ● Specifications

Items		Characteristics
		L8
Operating Temp. Range		- 55 to + 105°C
Rated Voltage Range		2.5 to 16V-dc
Capacitance Range		100 to 1500μF
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				8×8
180				8×8
220				8×8
270				8×8
470			8×8	
560	8×8	8×8	8×8	
680			8×8	
820	8×8	8×8	8×8	
1000	8×8		8×8	
1200	8×8			
1500	8×8			

### ● Dimensions



[Unit : mm]

φD×L	φd	P	α
8×8	0.6	3.5	1.0

Ultra Low ESR	Large Capacitance	Endurance 2000/5000hrs
Low Profile	Lead-free	RoHS Compliance

UPGRADE

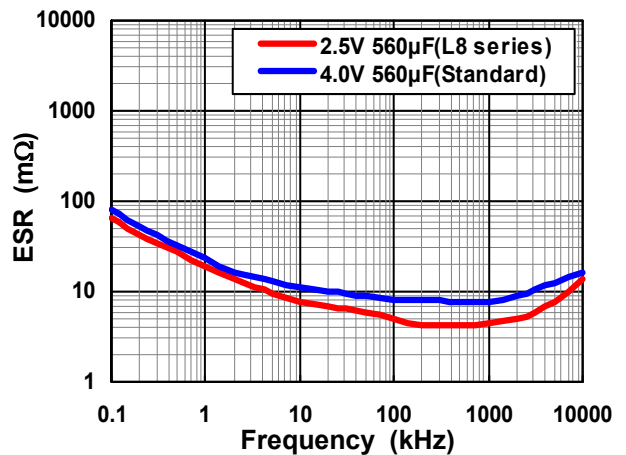
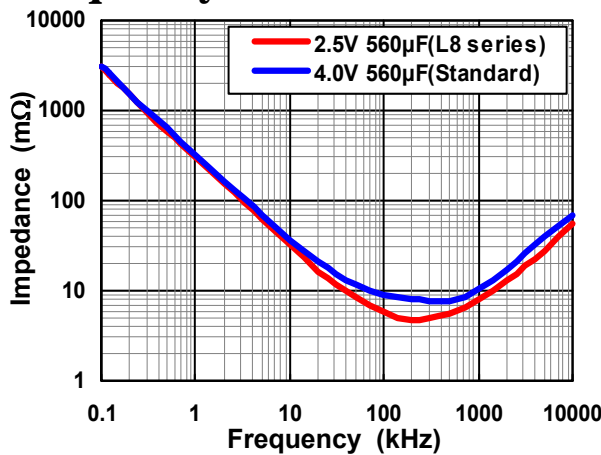


## ● Part number & Specifications

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	RL80E561MDN1 <sub>0 0</sub>	FP-2R5RE561M-L8 <sub>0 0</sub>	500	0.12	6	6100	8 × 8
	** 560	RL80E561MDNASQ <sub>0 0</sub>	FP-2R5RE561M-L8 <sub>0 0</sub> -5K	500	0.12	6	6100	8 × 8
	820	RL80E821MDN1 <sub>0 0</sub>	FP-2R5RE821M-L8 <sub>0 0</sub>	513	0.12	6	6100	8 × 8
	** 820	RL80E821MDNASQ <sub>0 0</sub>	FP-2R5RE821M-L8 <sub>0 0</sub> -5K	513	0.12	6	6100	8 × 8
	1000	RL80E102MDN1 <sub>0 0</sub>	FP-2R5RE102M-L8 <sub>0 0</sub>	625	0.12	6	6100	8 × 8
	1200	RL80E122MDN1 <sub>0 0</sub>	FP-2R5RE122M-L8 <sub>0 0</sub>	750	0.12	7	6100	8 × 8
4.0	1500	RL80E152MDN1 <sub>0 0</sub>	FP-2R5RE152M-L8 <sub>0 0</sub>	938	0.12	7	6100	8 × 8
	560	RL80G561MDN1 <sub>0 0</sub>	FP-4R0RE561M-L8 <sub>0 0</sub>	560	0.12	6	6100	8 × 8
	** 560	RL80G561MDNASQ <sub>0 0</sub>	FP-4R0RE561M-L8 <sub>0 0</sub> -5K	560	0.12	6	6100	8 × 8
6.3	820	RL80G821MDN1 <sub>0 0</sub>	FP-4R0RE821M-L8 <sub>0 0</sub>	820	0.12	6	6100	8 × 8
	470	RL80J471MDN1 <sub>0 0</sub>	FP-6R3RE471M-L8 <sub>0 0</sub>	592	0.12	8	5700	8 × 8
	** 470	RL80J471MDNASQ <sub>0 0</sub>	FP-6R3RE471M-L8 <sub>0 0</sub> -5K	592	0.12	8	5700	8 × 8
	560	RL80J561MDN1 <sub>0 0</sub>	FP-6R3RE561M-L8 <sub>0 0</sub>	706	0.12	8	5700	8 × 8
	** 560	RL80J561MDNASQ <sub>0 0</sub>	FP-6R3RE561M-L8 <sub>0 0</sub> -5K	706	0.12	8	5700	8 × 8
	680	RL80J681MDN1 <sub>0 0</sub>	FP-6R3RE681M-L8 <sub>0 0</sub>	857	0.12	8	5700	8 × 8
16	820	RL80J821MDN1 <sub>0 0</sub>	FP-6R3RE821M-L8 <sub>0 0</sub>	1033	0.12	8	5700	8 × 8
	1000	RL80J102MDN1 <sub>0 0</sub>	FP-6R3RE102M-L8 <sub>0 0</sub>	1260	0.12	9	5700	8 × 8
	100	RL81C101MDN1 <sub>0 0</sub>	FP-016RE101M-L8 <sub>0 0</sub>	320	0.12	12	5000	8 × 8
	180	RL81C181MDN1 <sub>0 0</sub>	FP-016RE181M-L8 <sub>0 0</sub>	576	0.12	12	5000	8 × 8
	220	RL81C221MDN1 <sub>0 0</sub>	FP-016RE221M-L8 <sub>0 0</sub>	704	0.12	12	5000	8 × 8
	270	RL81C271MDN1 <sub>0 0</sub>	FP-016RE271M-L8 <sub>0 0</sub>	864	0.12	12	5000	8 × 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) 6.3V, 560μF, 5000hrs (Endurance) Nichicon P/N

