

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%)

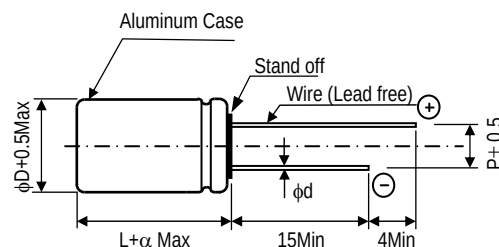
Specifications

Items		Characteristics
		L8
Operating Temp. Range		- 55 to + 105°C
Rated Voltage Range		2.5 to 35V _{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

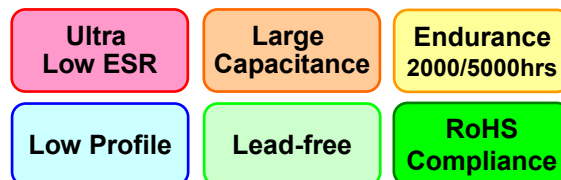
		[φD×L]				
R.V (S.V.) Cap. [μF]	[V]	2.5 (2.8)	4.0 (4.6)	6.3 (7.2)	16 (18.4)	35 (40.2)
100					8×8	8×8
180					8×8	
220					8×8	
270					8×8	
330					8×8	
470				8×8		
560		8×8	8×8	8×8		
680				8×8		
820		8×8	8×8	8×8		
1000		8×8		8×8		
1200		8×8				
1500		8×8				

Dimensions



[Unit : mm]

φD×L	φd	P	α
8×8	0.6	3.5	1.0



UPGRADE



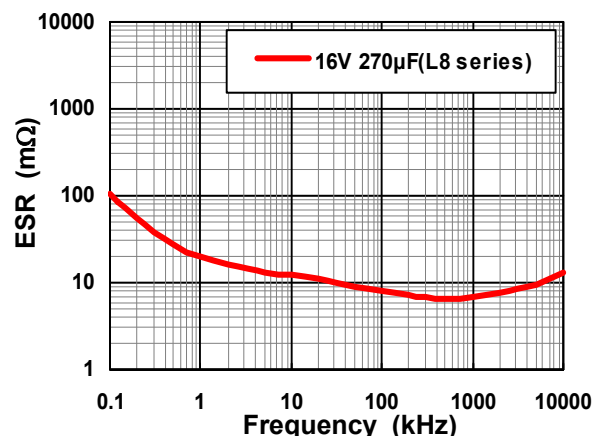
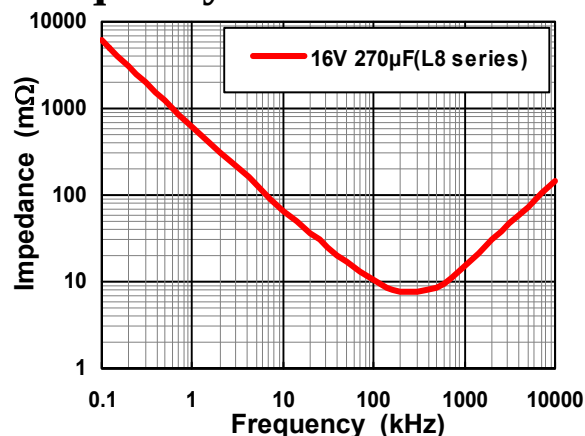
Part number & Specifications

Rated Voltage (V)	Rated Capacitance (μ F, 120Hz)	Part Number		Leakage Current * (μ A, 2 min)	$\tan\delta$ (120Hz)	ESR (m Ω , 100kHz)	Rated Ripple Current (mA, r.m.s.)	Case Size ϕ D $\times$ L(mm)
		NICHICON	FPCAP					
2.5	560	RL80E561MDN1□□	FP-2R5RE561M-L8□□	500	0.12	6	6100	8 $\times$ 8
	** 560	RL80E561MDNASQ□□	FP-2R5RE561M-L8□□-5K	500	0.12	6	6100	8 $\times$ 8
	820	RL80E821MDN1□□	FP-2R5RE821M-L8□□	513	0.12	6	6100	8 $\times$ 8
	** 820	RL80E821MDNASQ□□	FP-2R5RE821M-L8□□-5K	513	0.12	6	6100	8 $\times$ 8
	1000	RL80E102MDN1□□	FP-2R5RE102M-L8□□	625	0.12	6	6100	8 $\times$ 8
	1200	RL80E122MDN1□□	FP-2R5RE122M-L8□□	750	0.12	7	6100	8 $\times$ 8
	1500	RL80E152MDN1□□	FP-2R5RE152M-L8□□	938	0.12	7	6100	8 $\times$ 8
4.0	560	RL80G561MDN1□□	FP-4R0RE561M-L8□□	560	0.12	6	6100	8 $\times$ 8
	** 560	RL80G561MDNASQ□□	FP-4R0RE561M-L8□□-5K	560	0.12	6	6100	8 $\times$ 8
	820	RL80G821MDN1□□	FP-4R0RE821M-L8□□	820	0.12	6	6100	8 $\times$ 8
6.3	470	RL80J471MDN1□□	FP-6R3RE471M-L8□□	592	0.12	8	5700	8 $\times$ 8
	** 470	RL80J471MDNASQ□□	FP-6R3RE471M-L8□□-5K	592	0.12	8	5700	8 $\times$ 8
	560	RL80J561MDN1□□	FP-6R3RE561M-L8□□	706	0.12	8	5700	8 $\times$ 8
	** 560	RL80J561MDNASQ□□	FP-6R3RE561M-L8□□-5K	706	0.12	8	5700	8 $\times$ 8
	680	RL80J681MDN1□□	FP-6R3RE681M-L8□□	857	0.12	8	5700	8 $\times$ 8
	820	RL80J821MDN1□□	FP-6R3RE821M-L8□□	1033	0.12	8	5700	8 $\times$ 8
	1000	RL80J102MDN1□□	FP-6R3RE102M-L8□□	1260	0.12	9	5700	8 $\times$ 8
16	100	RL81C101MDN1□□	FP-016RE101M-L8□□	320	0.12	12	5000	8 $\times$ 8
	180	RL81C181MDN1□□	FP-016RE181M-L8□□	576	0.12	12	5000	8 $\times$ 8
	220	RL81C221MDN1□□	FP-016RE221M-L8□□	704	0.12	12	5000	8 $\times$ 8
	270	RL81C271MDN1□□	FP-016RE271M-L8□□	864	0.12	10	5000	8 $\times$ 8
	330	RL81C331MDN1□□	FP-016RE331M-L8□□	1056	0.12	12	5000	8 $\times$ 8
35	100	RL81V101MDN1□□	FP-035RE101M-L8□□	700	0.12	25	3000	8 $\times$ 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) 6.3V, 560 μ F, 5000hrs (Endurance)

Nichicon P/N

R	L8	0J	561	M	DN	ASQ	
Type	Series name	Rated Voltage	Rated Capacitance	Capacitance Tolerance	Configuration	Control code	Lead Forming

FPCAP P/N

FP	6R3	RE	561	M	L8	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)
KX: ϕ 8, 3.5mm pitch taping
PX: ϕ 8, 5.0mm pitch taping

R: Long lead (Bulk)
CG: Cut lead (Bulk)
K : ϕ 8, 3.5mm pitch taping
P : ϕ 8, 5.0mm pitch taping

-5K : 5000hrs
Without -5K: 2000hrs

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Nichicon:

[RL81C331MDN1KX](#) [RL81V101MDN1KX](#) [RL80J471MDNASQ](#) [RL80J681MDN1](#) [RL81C271MDN1](#) [RL80J821MDN1](#)
[RL80E561MDN1](#) [RL80E102MDN1](#) [RL80G821MDN1](#) [RL80E821MDNASQ](#) [RL80E152MDN1](#) [RL81C221MDN1](#)
[RL80E821MDN1](#) [RL80E122MDN1](#) [RL81C181MDN1](#) [RL80J561MDNASQ](#) [RL80G561MDN1](#) [RL80E561MDNASQ](#)
[RL80J471MDN1](#) [RL80G561MDNASQ](#) [RL80J102MDN1](#) [RL80J561MDN1](#) [RL80E561MDNASQKX](#)
[RL80J471MDNASQPX](#) [RL81C271MDN1KX](#) [RL80J561MDNASQKX](#) [RL81C271MDN1PX](#) [RL80J471MDNASQKX](#)
[RL80E152MDN1KX](#) [RL80J821MDN1PX](#) [RL81C221MDN1KX](#) [RL80E122MDN1KX](#) [RL80E821MDNASQKX](#)
[RL80J821MDN1KX](#) [RL81C181MDN1PX](#) [RL80G561MDNASQKX](#) [RL80E561MDN1KX](#) [RL80J471MDN1KX](#)
[RL80G821MDN1KX](#) [RL81C221MDN1PX](#) [RL80J471MDN1PX](#) [RL80J681MDN1KX](#) [RL80G561MDN1KX](#)
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