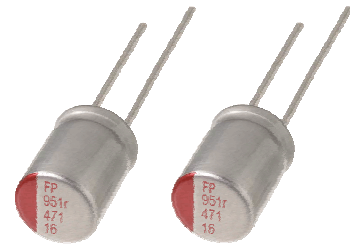


FPCAP Functional Polymer Aluminum Solid Electrolytic Capacitors

NE series

Ultra Low ESR	Ultra Large Capacitance
Lead free	RoHS Compliance

NEW



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.
- Buck 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%)

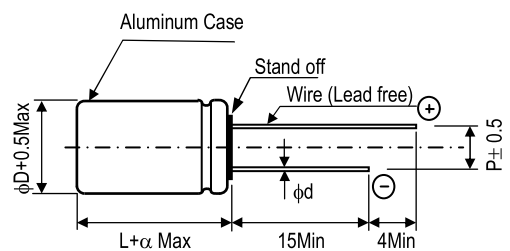
Specifications

Items	Characteristics	
	NE	
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 2000Hrs 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

		[ϕ D \times L]			
R.V(S.V.) Cap. [μ F]	[V]	2.5 (2.8)	6.3 (7.2)	10 (11.5)	16 (18.4)
100					5 \times 10
220				6.3 \times 10	
470					8 \times 11.5
680		8 \times 6			
1200			8 \times 9		

Dimensions



[Unit : mm]

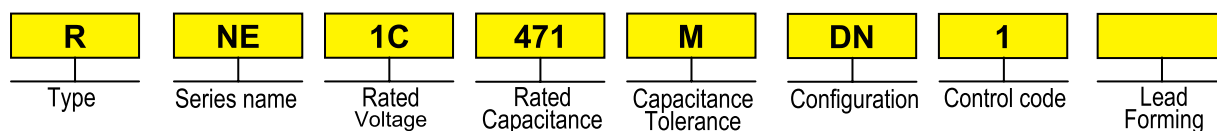
ϕ D \times L	ϕ d	P	α
5 \times 10	0.5	2.0	1.0
6.3 \times 10	0.5	2.5	1.0
8 \times 6	0.6	3.5	1.0
8 \times 9	0.6	3.5	1.0
8 \times 11.5	0.6	3.5	1.5

● 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	680	RNE0E681MDN1□□	FP-2R5RE681M-NE□□	500	0.10	8	4900	8 × 6
6.3	1200	RNE0J122MDN1□□	FP-6R3RE122M-NE□□	1512	0.08	10	5700	8 × 9
10	220	RNE1A221MDS1□□	FP-010RE221M-NE□□	440	0.08	30	2500	6.3 × 10
16	100	RNE1C101MDS1□□	FP-016RE101M-NE□□	320	0.08	35	2300	5 × 10
	470	RNE1C471MDN1□□	FP-016RE471M-NE□□	1504	0.08	12	5000	8 × 11.5

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

● Part Number (EX) 16V, 470μF



CG: Cut lead (Bulk)
 JX: φ6.3x10, 2.5mm pitch taping
 JT: φ5x10, 2.5mm pitch taping
 KX: φ8, 3.5mm pitch taping
 PX: φ5&φ6.3&φ8, 5.0mm pitch taping