

FPCAP *Functional Polymer Aluminum Solid Electrolytic Capacitors*

NU series

Ultra Low ESR

Large Capacitance

Endurance 2000/5000hrs

Lead-free

RoHS Compliance

UPGRADE



● 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%)

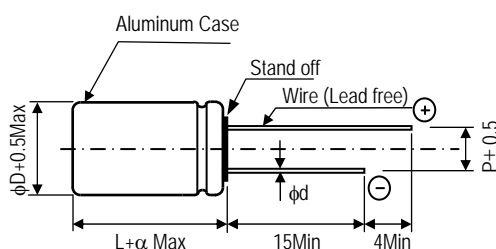
● Specifications

Items		Characteristics
		NU
Operating Temp. Range		- 55 to + 105°C
Rated Voltage Range		2.5 to 25V-dc
Capacitance Range		10 to 2700μF
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)	10 (11.5)	16 (18.4)	25 (28.7)
10				4×5		
33						8×11.5
47						8×11.5
68						8×11.5
100					6.3×10	
180					8×11.5	
270					8×11.5	
330					8×11.5	
470			8×11.5		10×12.5	
680			8×11.5			
820		8×11.5	8×11.5			
1000		8×11.5	8×11.5			
1200		8×11.5	8×11.5	10×12.5		
1500	8×11.5		10×12.5			
1800		10×12.5				
2200		10×12.5				
2700	10×12.5					

● Dimensions



[Unit : mm]

φD×L	φd	P	α
4×5	0.45	1.5	1.0
6.3×10	0.5	2.5	1.0
8×11.5	0.6	3.5	1.5
10×12.5	0.6	5.0	1.5

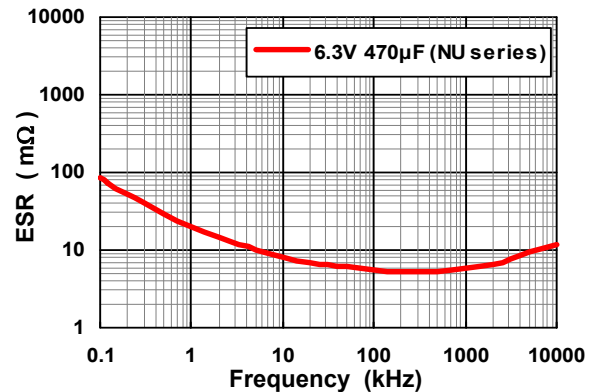
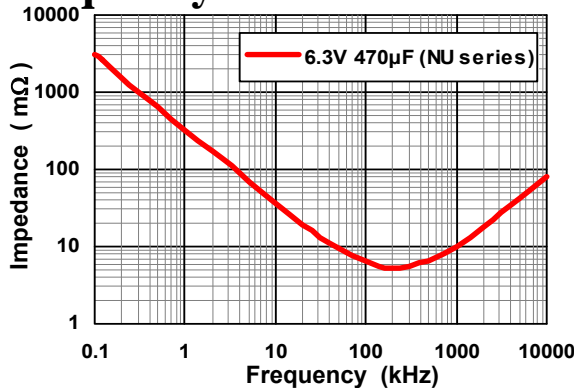
● Part number & Specifications

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	1500	RNU0E152MDN1 _{0 0}	FP-2R5RE152M-NU _{0 0}	938	0.08	7	5700	8 x 11.5
	2700	RNU0E272MDN1 _{0 0}	FP-2R5RE272M-NU _{0 0}	1350	0.08	7	6100	10 x 12.5
4.0	820	RNU0G821MDN1 _{0 0}	FP-4R0RE821M-NU _{0 0}	656	0.08	7	5700	8 x 11.5
	1000	RNU0G102MDN1 _{0 0}	FP-4R0RE102M-NU _{0 0}	800	0.08	7	5700	8 x 11.5
	1200	RNU0G122MDN1 _{0 0}	FP-4R0RE122M-NU _{0 0}	960	0.08	7	5700	8 x 11.5
	1800	RNU0G182MDN1 _{0 0}	FP-4R0RE182M-NU _{0 0}	1440	0.08	7	6100	10 x 12.5
	2200	RNU0G222MDN1 _{0 0}	FP-4R0RE222M-NU _{0 0}	1760	0.08	7	6100	10 x 12.5
6.3	470	RNU0J471MDN1 _{0 0}	FP-6R3RE471M-NU _{0 0}	592	0.08	7	5700	8 x 11.5
	680	RNU0J681MDN1 _{0 0}	FP-6R3RE681M-NU _{0 0}	857	0.08	7	5700	8 x 11.5
	820	RNU0J821MDN1 _{0 0}	FP-6R3RE821M-NU _{0 0}	1033	0.08	7	5700	8 x 11.5
	1000	RNU0J102MDN1 _{0 0}	FP-6R3RE102M-NU _{0 0}	1260	0.08	7	5700	8 x 11.5
	1200	RNU0J122MDN1 _{0 0}	FP-6R3RE122M-NU _{0 0}	1512	0.08	9	6100	8 x 11.5
	1500	RNU0J152MDN1 _{0 0}	FP-6R3RE152M-NU _{0 0}	1890	0.08	7	6100	10 x 12.5
10	10	RNU1A100MDS1 _{0 0}	FP-010RE100M-NU _{0 0}	300	0.12	220	700	4 x 5
	** 10	RNU1A100MDSASQ _{0 0}	FP-010RE100M-NU _{0 0} -5K	300	0.12	220	700	4 x 5
	1200	RNU1A122MDN1 _{0 0}	FP-010RE122M-NU _{0 0}	2400	0.08	9	6200	10 x 12.5
16	100	RNU1C101MDS1 _{0 0}	FP-016RE101M-NU _{0 0}	320	0.08	25	2820	6.3 x 10
	** 100	RNU1C101MDSASQ _{0 0}	FP-016RE101M-NU _{0 0} -5K	320	0.08	25	2820	6.3 x 10
	180	RNU1C181MDN1 _{0 0}	FP-016RE181M-NU _{0 0}	576	0.08	8	5700	8 x 11.5
	270	RNU1C271MDN1 _{0 0}	FP-016RE271M-NU _{0 0}	864	0.08	8	5000	8 x 11.5
	** 270	RNU1C271MDNASQ _{0 0}	FP-016RE271M-NU _{0 0} -5K	864	0.08	8	5000	8 x 11.5
	330	RNU1C331MDN1 _{0 0}	FP-016RE331M-NU _{0 0}	1056	0.08	8	6100	8 x 11.5
	470	RNU1C471MDN1 _{0 0}	FP-016RE471M-NU _{0 0}	1504	0.08	10	6100	10 x 12.5
25	33	RNU1E330MDN1 _{0 0}	FP-025RE330M-NU _{0 0}	413	0.12	24	3600	8 x 11.5
	47	RNU1E470MDN1 _{0 0}	FP-025RE470M-NU _{0 0}	588	0.12	24	3600	8 x 11.5
	68	RNU1E680MDN1 _{0 0}	FP-025RE680M-NU _{0 0}	850	0.12	24	3600	8 x 11.5

* 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) 16V, 270μF, 5000hrs (Endurance)

Nichicon P/N

