NON-POLAR ALUMINUM ELECTROLYTIC

NPR, NPA (Non-Polarized) SERIES

SUBMINIATURE NON-POLARIZED (NPR: Radial Leads, NPA: Axial Leads)

The NPR and NPA Series subminiature aluminum electrolytic capacitors are especially designed for use in circuits whose polarity is reversed or unknown or in crossover networks which do not require tough characteristic requirements.

RATINGS

Capacitance Range: 0.47μf to 1000μf

Tolerance: ±20%

Voltage Range: 16V to 100V

PERFORMANCE SPECIFICATIONS

Operating Temperature Range:

-40°C to +85°C (-40°F to +185°F)

Leakage Current: $I \le 0.002CV + 3\mu A$ (measured after

5 minutes of applied voltage)
I = Leakage Current (μA)

C = Nominal Capacitance (μf)

V = Rated Voltage (V)

Capacitance Tolerance (M): ±20% measured at 20°C (68°F), 120Hz

Dissipation Factor: measured at +20°C (+68°F),120H₇

Rated Voltage	16	25	50	63	100
0.1μf to 1000μf	0.16	0.12	0.08	0.06	0.06

Impedance Ratio at Low Temperature: 120H₇

Comparison Z WV	16	25	50	63	100
Z @ -25°C (-13°F)/ Z @ +20°C (+68°F)	2	1.5	1.5	2	2
Z @ -40°C (-40°F)/ Z @ +20°C (+68°F)	3	2	2	4	4

Surge Voltage:

DC Rated Voltage	16	25	50	63	100
Surge Voltage	20	32	63	79	125

Load Life: 1000 ± 12 Hrs @ +85°C (+185°F), at rated voltage

Leakage Current: Within values specified above Dissipation Factor: Within $\pm 150\%$ of specified value Capacitance Change Max: $\pm 15\%$ of initial value

Rated Voltage	Capacitance Change Max
160V to 450V	Within 30% of the initial value

Shelf Life: 1000 Hrs @ +85°C (+185°F),

no voltage applied

Leakage Current: Within values specified above Dissipation Factor: Within ±150% of specified value Capacitance Change Max: Within ±15% of initial value

MECHANICAL SPECIFICATIONS

Lead Solderability:

Meets the requirements of MIL-STD 202, Method 208

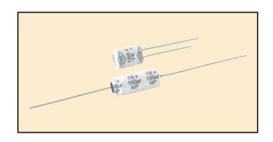
Marking:

Consists of series type, nominal capacitance, rated voltage, temperature range, anode and/or cathode identification, vendor identification.

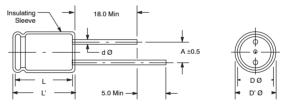
Recommended Cleaning Solvents:

Methanol, isopropanol ethanol, isobutanol, petroleum ether, propanol and/or commercial detergents. Halogenated hydrocarbon cleaning agents such as Freon (MF, TF, or TC), trichloroethylene, trichloroethane, or methylchloride are not recommended as they may damage the capacitor.

CASE SIZES AND DIMENSIONS:

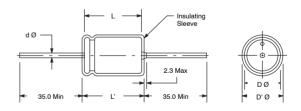


NPR SERIES



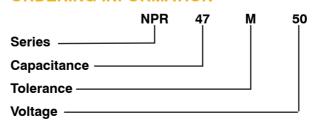
D' Ø = D Ø + 0.5 Max L' = L + 1.0 Max at D Ø \leq 8.0 L' = L + 2.0 Max at D Ø \geq 10.0

NPA SERIES



 $D' \ \varnothing = D \ \varnothing + 0.5 \ \text{Max} \qquad L' = L + 1.0 \ \text{Max} \ \text{at} \ D \ \varnothing \leq 8.0 \qquad L' = L + 2.0 \ \text{Max} \ \text{at} \ D \ \varnothing \geq 10.0$

ORDERING INFORMATION



NON-POLAR ALUMINUM ELECTROLYTIC

NPR, NPA (Non-Polarized) SERIES

NPR Series (Radial Type) Dimensions: Diameter (D Ø) x Length (L): mm

Rated Voltage (WV)	16	25	50	63	100
Surge Voltage (V) Cap (μf)	20	32	63	79	125
0.47			5 x 11		5 x 11
1.0			5 x 11	5 x 11	5 x 11
2.2			5 x 11	5 x 11	6 x 11
3.3			5 x 11	6 x 11	8 x 11.5
4.7		5 x 11	6 x 11	6 x 11	8 x 11.5
10	5 x 11	5 x 11	8 x 11.5	8 x 11.5	10 x 12.5
22	6 x 11	6 x 11	10 x 12.5	10 x 12.5	10 x 20
33	6 x 11	8 x 11.5	10 x 16	10 x 16	13 x 20
47	8 x 11.5	10 x 12.5	10 x 20	10 x 20	13 x 25
100	10 x 12.5	10 x 16	13 x 25	13 x 25	16 x 25
220	10 x 20	13 x 25	16 x 25	16 x 30	
330	13 x 20	13 x 25	16 x 30.5		
470	13 x 25	16 x 25			
1000	16 x 25	16 x 30.5			

^{*} These dimensions are for reference only, please consult the factory for actual size.

NPR Series (Radial Type) Mechanical Specifications: mm

Outside Diameter (D Ø)	5	6	8	10	13	16
Lead Spacing (A)	2	2.5	3.5	5	5	7.5
Lead Diameter (d Ø)	0.5	0.6	0.6	0.6	0.6	0.8

^{*} These dimensions are for reference only, please consult the factory for actual size.

NPA Series (Axial Type) Dimensions: Diameter (D Ø) x Length (L): mm

Rated Voltage (WV)	16	25	50	63	100
Surge Voltage (V) Cap (μf)	20	32	63	79	125
0.47			6 x 15		6 x 15
1.0			6 x 15	6 x 15	6 x 15
2.2			6 x 15	6 x 15	6 x 15
3.3			6 x 15	6 x 15	6 x 19
4.7			6 x 15	6 x 15	8 x 19
10		6 x 15	6 x 19	8 x 19	10 x 21
22	6 x 15	10 x 19	10 x 21	10 x 21	10 x 25
33	6 x 19	8 x 19	10 x 21	10 x 25	13 x 30
47	8 x 19	8 x 19	10 x 25	10 x 25	13 x 30
100	10 x 21	10 x 25	13 x 30	13 x 30	16 x 30
220	10 x 25	13 x 30	16 x 30	16 x 30	
330	10 x 30	13 x 30	16 x 41	16 x 41	
470	13 x 30	16 x 30			
1000	16 x 30				

^{*} These dimensions are for reference only, please consult the factory for actual size.

NPA Series (Axial Type) Mechanical Specifications: mm

Outside Diameter (D Ø)	6	8	10	13	16
Lead Diameter (d Ø)	0.6	0.6	0.6	0.8	0.8

These dimensions are for reference only, please consult the factory for actual size.

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