

NPS

+ 85°C Non-Polar Surface Mount Chip Aluminum Electrolytic Capacitors



NEW!

FEATURES

- *Audio Coupling*
- *Wide Capacitance Range: .1 to 47 μ F*
- *Standard Case Sizes*
- *Solvent Proof*
- *Operating Voltage Range: 6.3WVDC to 50 WVDC*

SPECIFICATIONS

Capacitance Tolerance		±20% at 120Hz, 20°C						
Operating Temperature Range		-40°C to +85°C						
Dissipation Factor 120Hz 20°C (Max)	WVDC	6.3	10	16	25	35	50	
	tan δ	.26	.22	.20	.20	.14	.18	
Leakage current	Time	1 minutes						
		0.03 (V +6μA)						
Impedance Ratio at Low Temperature (120Hz)	-25°C/20°C	4	3	2	2	2	2	
	-40°C/20°C	8	6	4	4	3	3	
Load Life	2,000 hours at 85°C with rated voltage							
	Capacitance change Dissipation factor Leakage current	25% of initial measured values 200% initial specified value 100% Initial specified value						
Shelf Life	1,000 hours at 85°C with no applied voltage.							
Resistance to Soldering Heat	Capacitors placed on a 250°C hot plate for 30 seconds with their electrode terminals facing downward will fulfill the folowing conditions after being cooled to room temperature.							
	Capacitance change Dissipation factor Leakage current	10% of the initial measured value The initial specified value The Initial specified value						



ILLINOIS CAPACITOR, INC. 3757 W. Touhy Ave., Lincolnwood, IL 60712 • (847) 675-1760 • Fax (847) 673-2850 • www.illcap.com

STANDARD PART LISTING

Capacitance (μ F)	WVDC	IC [®] PART NUMBER	Maximum E.S.R. Ω 120Hz, +20°C	Maximum RMS Ripple Current (mA) at 120 Hz, +85°C	Dimensions DxL (mm)
0.1	50	104NPS050M	2984.2	1	4x5.4
0.22	50	224NPS050M	1356.43	2.3	4x5.4
0.33	50	334NPS050M	904.29	3.5	4x5.4
0.47	50	474NPS050M	634.93	5	4x5.4
1	50	105NPS050M	165.79	10	4x5.4
2.2	35	225NPS035M	150.71	8.4	4x5.4
2.2	50	225NPS050M	75.36	15	5x5.4
3.3	25	335NPS025M	100.48	10	4x5.4
3.3	50	335NPS050M	90.43	18	5x5.4
4.7	16	475NPS016M	70.55	12	4x5.4

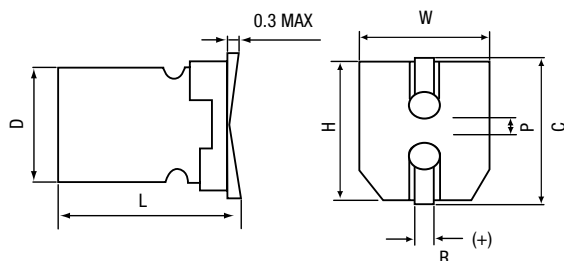
Capacitance (μ F)	WVDC	IC [®] PART NUMBER	Maximum E.S.R. Ω 120Hz, +20°C	Maximum RMS Ripple Current (mA) at 120 Hz, +85°C	Dimensions DxL (mm)
4.7	35	475NPS035M	70.55	20	5x5.4
4.7	50	475NPS050M	63.49	23	6.3x5.4
10	10	106NPS010M	36.47	17	4x5.4
10	16	106NPS016M	33.15	25	5x5.4
10	35	106NPS035M	33.15	30	6.3x5.4
22	6.3	226NPS6R3M	19.59	31	5x5.4
22	16	226NPS016M	15.07	39	6.3x5.4
33	16	336NPS016M	10.05	57	6.3x5.4
47	6.3	476NPS6R3M	9.17	47	6.3x5.4

PHYSICAL DIMENSIONS

WVDC (V) (μ F)	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)
0.1					→	4x5.4
0.22					→	4x5.4
0.33					→	4x5.4
0.47					→	4x5.4
1					→	4x5.4
2.2				→	4x5.4	5x5.4
3.3		→	4x5.4	→	5x5.4	6.3x5.4
4.7	→	4x5.4	5x5.4	→	6.3x5.4	
10	→	4x5.4	5x5.4	→	6.3x5.4	
22	5x5.4	→	6.3x5.4			
33	→		6.3x5.4			
47	6.3x5.4					

(mm)

DIMENSIONS



D _{+0.5 MAX}	L	W _{±0.2}	H _{±0.2}	C _{±0.2}	R	P _{±0.2}
4	5.4 _{+0.1/-0.2}	4.3	4.3	5.0	0.5~0.8	1.0
5	5.4 _{+0.1/-0.2}	5.3	5.3	6.0	0.5~0.8	1.4
6.3	5.4 _{+0.1/-0.2}	6.6	6.6	7.3	0.5~0.8	2.2

(mm)