

NCN

+105°C Non-polarized Surface Mount Aluminum Electrolytic Capacitors



FEATURES

- Capacitance Range .1 to 47 μ F
- Standard Case Sizes
- 5.5 mm height
- Automatic insertion applicable

SPECIFICATIONS

Capacitance Tolerance		$\pm 20\%$ at 120Hz, 20°C									
Operating Temperature Range		-40°C to +105°C									
Dissipation Factor 120Hz, 20°C (Max)	WVDC	6.3	10	16	25	35	50				
	tan δ	.32	.26	.24	.2	.18	.18				
Leakage current	Time	2 minutes									
		.01 CV or 3 μ A, whichever is greater									
Impedance Ratio at Low Temperature (120Hz)	WVDC	6.3	10	16	25	35	50				
	-25°C/20°C	4	3	2	2	2	2				
	-40°C/20°C	8	6	4	4	3	3				
Load Life	1,000 hours at 105°C with rated voltage										
	Capacitance change Dissipation factor Leakage current					$\leq 20\%$ of initial measured values $\leq 200\%$ initial specified value $\leq 100\%$ Initial specified value					
Shelf Life	1000 hours at 105°C with no voltage applied.										
	Capacitance change Dissipation factor Leakage current					$\leq 20\%$ of initial measured values $\leq 200\%$ initial specified value $\leq 100\%$ Initial specified value					
Resistance to Soldering Heat	Capacitors placed on a 250°C hot plate for 30 seconds with their electrode terminals facing downward will fulfill the following conditions after being cooled to room temperature.										
	Capacitance change Dissipation factor Leakage current					$\leq 10\%$ of the initial measured value $\leq 100\%$ of specified value $\leq 100\%$ of specified value					
Ripple Current Multipliers	Frequency(Hz)					Temperature					
	50	120	300	1K	10K	105°C	85°C	70°C	60°C	40°C	
	.75	1.0	1.35	1.55	2.0	1.0	1.65	1.78	2.1	2.4	

STANDARD PART LISTING

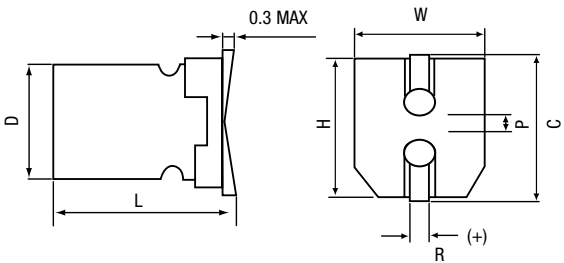
Capacitance (μF)	WVDC	IC PART NUMBER	Maximum E.S.R. Ω 120Hz, +20°C	Maximum RMS Ripple Current (mA) at 120 Hz, +105°C	Dimensions DxL (mm)
0.1	50	104NCN050M	2984.155	1.3	4x5.3
0.22	50	224NCN050M	1356.434	2.3	4x5.3
0.33	50	334NCN050M	904.289	2.8	4x5.3
0.47	50	474NCN050M	634.927	4	4x5.3
1	50	105NCN050M	298.416	8.4	4x5.3
2.2	35	225NCN035M	135.643	8.4	4x5.3
2.2	50	225NCN050M	135.643	13	5x5.3
3.3	50	335NCN050M	90.429	17	5x5.3
4.7	16	475NCN016M	84.657	12	4x5.3

Capacitance (μF)	WVDC	IC PART NUMBER	Maximum E.S.R. Ω 120Hz, +20°C	Maximum RMS Ripple Current (mA) at 120 Hz, +105°C	Dimensions DxL (mm)
4.7	35	475NCN035M	63.493	18	5x5.3
4.7	50	475NCN050M	63.493	20	6.3x5.3
10	16	106NCN016M	39.789	23	5x5.3
10	35	106NCN035M	29.842	29	6.3x5.3
22	6.3	226NCN6R3M	24.114	28	5x5.3
22	16	226NCN016M	18.086	37	6.3x5.3
33	16	336NCN016M	12.057	49	6.3x5.3
47	6.3	476NCN6R3M	11.288	45	6.3x5.3

PHYSICAL DIMENSIONS

WVDC (V) / (μF)	6.3 (7.9)	16 (20)	25 (32)	35 (44)	50 (63)
0.1					4x5.3
0.22					4x5.3
0.33					4x5.3
0.47					4x5.3
1					4x5.3
2.2				4x5.3	5x5.3
3.3					5x5.3
4.7		4x5.3		5x5.3	6.3x5.3
10		5x5.3		6.3x5.3	
22	5x5.3	6.3x5.3			
33		6.3x5.3			
47	6.3x5.3				

D x L (mm)



D _{-0.5 MAX}	L _{±0.2}	C _{±0.2}	H _{±0.2}	W _{±0.2}	P _{±0.2}	R
4	5.3	4.8	4.3	4.3	1.0	0.5~0.8
5	5.3	6	5.3	5.3	1.4	0.5~0.8
6.3	5.3	7.1	6.6	6.6	2.2	0.5~0.8

(mm)