NPS

Aluminum Electrolytic Capacitors

+85ºC Bi-polar Surface Mount

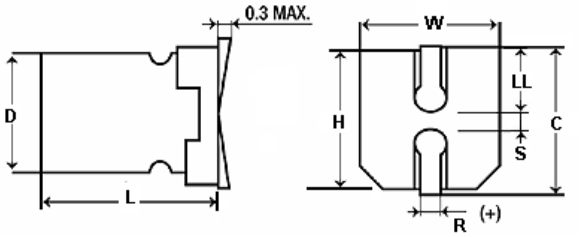
FEATURES	Small Size – Non/Bi-polar
APPLICATIONS	Bypass – Coupling – Filtering

Operating Temperature Range		**-40°C to +85°C**						
Capacitance Tolerance		**±20% at 120 Hz, 20°C**						
Surge voltage	**WVDC**	**6.3**	**10**	**16**	**25**	**35**	**50**	
	SVDC	7.9	13	20	32	44	63	
Dissipation Factor	**WVDC**	**6.3**	**10**	**16**	**25**	**35**	**50**	
	tan δ	.24	.2	.18	.18	.14	.14	
Leakage current		**2 Minutes**						
		.03CV +6uA						
Low temperature stability Impedance ratio (120 Hz)	**Rated WVDC**	**6.3**	**10**	**16**	**25**	**35**	**50**	
	-25°C to +20°C	4	3	2	2	2	2	
	-40°C to +20°C	8	6	4	4	3	3	

Load Life	**2000 hours at 85°C with rated WVDC and ripple current applied. Polarity reversed every 250 hours**	
	Capacitance change	≤20% of initial measured value
	Dissipation factor	≤200% of maximum specified value
	Leakage current	≥100% of maximum specified value
Shelf Life	**1000 hours at 85°C with no voltage applied**	
	Capacitance change	≤20% of initial measured value
	Dissipation factor	≤200% of maximum specified value
	Leakage current	≥100% of maximum specified value
Resistance to soldering heat	**Capacitors placed on a 250C hot plate for 30 seconds with their electrode terminations facing downward will fulfill the following conditions after being cooled to room temperature**	
	Capacitance change	≤10% of initial measured value
	Dissipation factor	≤100% of maximum specified value
	Leakage current	≥100% of maximum specified value

Ripple Current Multipliers	**Frequency (Hz)**						**Temperature (°C)**		
	50	**120**	**400**	**1k**	**10k**	**100k**	**85**	**70**	**65**
	0.8	1.0	1.0	1.1	1.3	1.5	1.0	1.35	1.35

Special Order Options



D±0.5	L	W±0.2	H±0.2	C±0.2	R	S±0.2	S±0.2
4	5.4 0.1/-0.2	4.3	4.3	5	0.5~0.8	1.8	1.0
5	5.4 0.1/-0.2	5.3	5.3	6	0.5~0.8	2.1	1.4
6.3	5.4 0.1/-0.2	6.6	6.6	7	0.5~0.8	2.4	2.2

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+85°C, Non-Polar, 1000 hours

WVDC	Capacitance (µF)	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	Maximum RMS Ripple Current (mA) 120 Hz, +85°C	Dims DxL (mm)
6.3	22	226NPS6R3M	18.086	31	5x5.4
6.3	47	476NPS6R3M	8.466	47	6.3x5.4
10	10	106NPS010M	33.157	17	4x5.4
16	4.7	475NPS016M	63.49	12	4x5.4
16	10	106NPS016M	29.842	25	5x5.4
16	22	226NPS016M	13.564	39	6.3x5.4
16	33	336NPS016M	9.043	57	6.3x5.4
35	2.2	225NPS035M	105.5	8.4	4x5.4
35	4.7	475NPS035M	49.38	23	5x5.4
35	10	106NPS035M	23.21	30	6.3x5.4
50	0.1	104NPS050M	2321.01	1	4x5.4
50	0.22	224NPS050M	1055	2.3	4x5.4
50	0.33	334NPS050M	703.34	3.5	4x5.4
50	0.47	474NPS050M	493.83	5	4x5.4
50	1	105NPS050M	232.1	10	4x5.4
50	2.2	225NPS050M	105.5	15	5x5.4
50	3.3	335NPS050M	70.33	18	5x5.4
50	4.7	475NPS050M	49.38	23	6.3x5.4

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