

DISCONTINUED PRODUCT

Miniature Aluminum Electrolytic Capacitors

NLE-LW Series

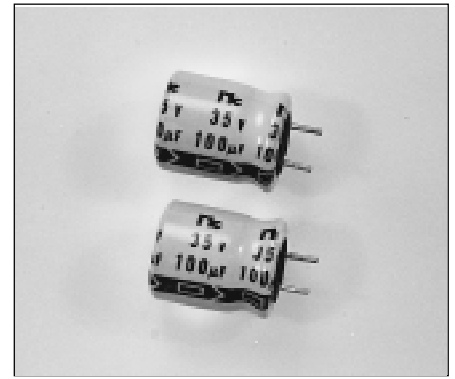
LOW LEAKAGE, WIDE TEMPERATURE, RADIAL LEADS, POLARIZED

FEATURES

- LOW LEAKAGE CURRENT & LOW IMPEDANCE
- WIDE TEMPERATURE RANGE & HIGH STABILITY
- CLOSER TOLERANCE ($\pm 10\%$) AVAILABLE

CHARACTERISTICS

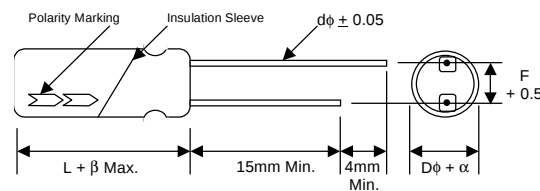
Capacitance Range	0.1 ~ 1,000μF						
Rated Working Voltage Range	10 ~ 50 Vdc						
Operating Temperature Range	-55 ~ +105°C						
Capacitance Tolerance	±20% (M), ±10% (K)						
Max. Leakage Current After 2 minutes (20°C)	0.002CV or 0.2μA Whichever is greater						
Surge Voltage & Tan δ	W.V. (Vdc)	10	16	25	35	50	
	S.V. (Vdc)	13	20	32	44	63	
	Tan δ	0.15	0.12	0.08	0.08	0.08	
Low Temperature Stability (Impedance Ratio @ 120Hz)	W.V. (Vdc)	10	16	25	35	50	
	Z-20°C/Z+20°C	2	1.5	1.5	1.5	1.5	
	Z-40°C/Z+20°C	5	4	3	3	3	
Load Life Test 1,000 hours at 105°C	Capacitance Change	Within ±20% of initial value					
	Tan δ	Less than 200% of specified value					
	Leakage Current	Less than specified value					



LEAD SPACING AND DIAMETER (mm)

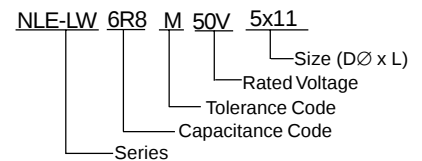
Case Dia. (D ϕ)	5	6.3	8	10	12.5	16	18	22
Leads Dia. (d ϕ)	0.5	0.5	0.6	0.6	0.6	0.8	0.8	0.8
Lead Spacing (F)	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10
Dim. α	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
Dim. β	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0

OUTLINE DRAWINGS (mm)



SLEEVE COLOR: ORANGE

PART NUMBERING SYSTEM



See page 8 for complete part numbering system.

STANDARD PRODUCTS AND CASE SIZE TABLE D ϕ x L (mm)

Cap. (μ F)	Code	Working Voltage (Vdc)				
		10	16	25	35	50
0.1	R10					5 x 11
0.22	R22					5 x 11
0.33	R33					5 x 11
0.47	R47					5 x 11
1.0	1R0					5 x 11
2.2	2R2					5 x 11
3.3	3R3					5 x 11
4.7	4R7					5 x 11
6.8	6R8					5 x 11
10	100					5 x 11
22	220				5 x 11	6.3 x 11
33	330			5 x 11	6.3 x 11	8 x 11.5
47	470		5 x 11	5 x 11	6.3 x 11	8 x 11.5
100	101	5 x 11	6.3 x 11	6.3 x 11	8 x 11.5	10 x 12.5
220	221	6.3 x 11	8 x 11.5	10 x 12.5	10 x 16	
330	331	8 x 11.5	10 x 12.5	10 x 16	10 x 20	
470	471	10 x 12.5	10 x 16	10 x 20		
1000	102	10 x 16	10 x 20			

MAXIMUM PERMISSIBLE RIPPLE CURRENT (mA rms) AT 105°C AND 120Hz

Cap. (μ F)	Working Voltage (Vdc)				
	10	16	25	35	50
0.1					0.8
0.22					1.6
0.33					2.5
0.47					3.5
1.0					7.0
2.2					16
3.3					29
4.7					32
6.8					40
10					50
22				85	110
33			100	135	150
47		100	120	155	190
100	110	155	170	235	285
220	175	260	320	340	360
330	270	320	340	360	
470	320	340	360		
1000	340	360			



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