NIC COMPONENTS CORP.
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END-OF-LIFE / PRODUCT DISCONTINUATION NOTICE

PRODUCTS: Aluminum Electrolytic Capacitors
NIC PRODUCT SERIES: NLE-LW Series

Please be advised that the following is notice that NIC will discontinue production of NLE-LW series of low leakage, wide temperature, aluminum electrolytic capacitors as of June 1st, 2003.

DISCONTINUATION DATE: June 1st, 2003 **LAST ORDER DATE**: July 1st, 2003 **LAST DELIVERY DATE**: September 1st, 2003

PART NUMBERS EFFECTED: All NLE-LW Part Numbers

REASON FOR DISCONTINUATION: Declining requirements

THERE IS NO DIRECT REPLACEMENT FOR THE NLE-LW SERIES PARTS. POSSIBLE ALTERNATIVES ARE:

NRWA SERIES: Major exception - leakage current specification (0.01CV or 3μA after 2 min. versus 0.002CV or 2μA after 2 min).

NLE-L SERIES: Major exception - temperature rating (-40°C ~ +85°C versus –55°C ~ +105°C).

NOTE: Other exceptions may apply. Please consult data sheets for complete details.

PREPARED BY:
Paul Harris, Technical Sales Manager, NIC Components Corporation

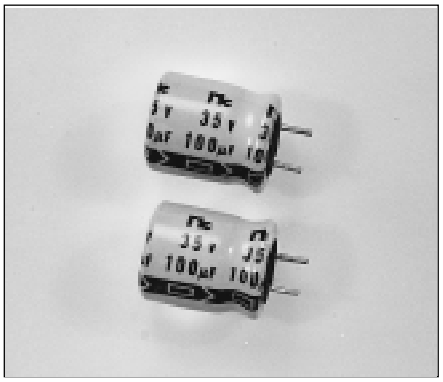
DISCONTINUED PRODUCT

Miniature Aluminum Electrolytic Capacitors

NLE-LW Series

LEADED

LOW LEAKAGE, WIDE TEMPERATURE, RADIAL LEADS, POLARIZED



FEATURES

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

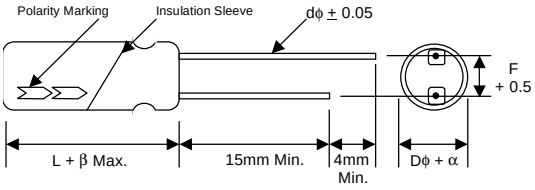
CHARACTERISTICS

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. (DØ)	5	6.3	8	10	12.5	16	18	22
Leads Dia. (dØ)	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

NLE-LW 6R8 M 50V 5x11

- NLE-LW — Series
- 6R8 — Capacitance Code
- M — Tolerance Code
- 50V — Rated Voltage
- 5x11 — Size (DØ x L)

See page 8 for complete part numbering system.

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

Cap. (µF)	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. (µF)	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			