



NIC COMPONENTS CORP.

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END OF LIFE NOTICE

PRODUCTS: Radial Low Leakage Aluminum Electrolytic Capacitors NIC PRODUCT SERIES: NLE-S

THE FOLLOWING IS NOTICE THAT THE **NLE-S SERIES** OF LOW LEAKAGE CAPACITORS ARE BEING DISCONTINUED.

LAST ORDER DATE: AUGUST 30, 2008

LAST DELIVERY DATE: DECEMBER 31, 2008

REASON FOR TERMINATION: Age and low utility of production equipment

THE FOLLOWING PART NUMBERS ARE AFFECTED:

DISCONTINUED PART NUMBERS

Part Number	Part Number
NLE-S220M6.3V4x5F	NLE-S100M35V5x5F
NLE-S330M6.3V5x5F	NLE-S220M35V6.3x5F
NLE-S470M6.3V5x5F	NLE-SR10M50V4x5F
NLE-S101M6.3V6.3x5F	NLE-SR22M50V4x5F
NLE-S220M10V5x5F	NLE-SR33M50V4x5F
NLE-S330M10V5x5F	NLE-SR47M50V4x5F
NLE-S470M10V6.3x5F	NLE-S1R0M50V4x5F
NLE-S100M16V4x5F	NLE-S2R2M50V4x5F
NLE-S220M16V5x5F	NLE-S3R3M50V4x5F
NLE-S330M16V6.3x5F	NLE-S4R7M50V5x5
NLE-S470M16V6.3x5F	NLE-S100M50V6.3x5F
NLE-S4R7M25V4x5F	
NLE-S100M25V5x5F	
NLE-S220M25V6.3x5F	
NLE-S330M25V6.3x5F	
NLE-S4R7M35V4x5F	

Miniature Aluminum Electrolytic Capacitors

NLES Series

SUPER LOW PROFILE, LOW LEAKAGE, ELECTROLYTIC CAPACITORS

FEATURES

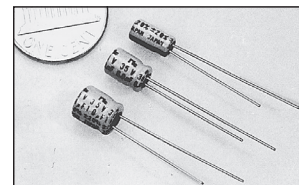
- LOW LEAKAGE CURRENT
- 5mm HEIGHT

CHARACTERISTICS

Rated Voltage Range	6.3 ~ 50Vdc						
Capacitance Range	0.1 ~ 100 μ F						
Operating Temperature Range	-40 ~ +85°C						
Capacitance Tolerance	\pm 20%(M)						
Max. Leakage Current After 2 minutes At +20°C	0.002CV or 0.4 μ A, whichever is greater						
Surge Voltage & Max. Tan δ @ 120Hz/+20°C	W.V. (Vdc)	6.3	10	16	25	35	50
	S.V. (Vdc)	8	13	20	32	44	63
	Tan δ	0.24	0.20	0.16	0.14	0.12	0.10
Low Temperature Stability (Impedance Ratio @ 120Hz)	Z-25°C/Z+20°C	4	3	2	2	2	2
	Z-40°C/Z+20°C	8	6	4	4	3	3
Load Life Test at Rated W.V. & +85°C 1,000 Hours	Capacitance Change	Within \pm 20% of initial measured value					
	Tan δ	Less than 200% of specified maximum value					
	Leakage Current	Less than specified maximum value					

RoHS Compliant
includes all homogeneous materials

*See Part Number System for Details

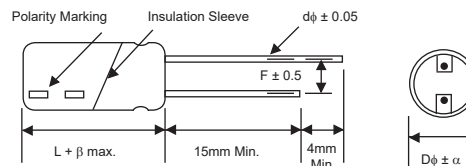


STANDARD VALUES AND CASE SIZE TABLE $D\phi \times L$ (mm)

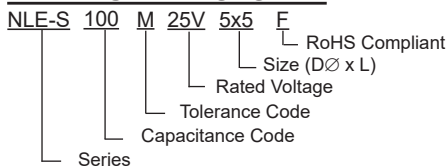
Cap. (μ F)	Code	Working Voltage (Vdc)					
		6.3	10	16	25	35	50
0.1	R10	-	-	-	-	-	4x5
0.22	R22	-	-	-	-	-	4x5
0.33	R33	-	-	-	-	-	4x5
0.47	R47	-	-	-	-	-	4x5
1.0	1R0	-	-	-	-	-	4x5
2.2	2R2	-	-	-	-	-	4x5
3.3	3R3	-	-	-	-	-	4x5
4.7	4R7	-	-	-	4x5	4x5	5x5
10	10	-	-	4x5	5x5	5x5	6.3x5
22	220	4x5	5x5	5x5	6.3x5	6.3x5	-
33	330	5x5	5x5	6.3x5	6.3x5	-	-
47	470	5x5	6.3x5	6.3x5	-	-	-
100	101	6.3x5	-	-	-	-	-

LEAD SPACING AND DIAMETER (mm)

Case Dia. ($D\phi$)	4	5	6.3
Lead Dia. ($d\phi$)	0.45	0.5	0.5
Lead Spacing (F)	1.5	2.0	2.5
Dim. α	0.5	0.5	0.5
Dim. β	1.0	1.0	1.0



PART NUMBER SYSTEM



PRECAUTIONS

Please review the notes on correct use, safety and precautions found at <https://www.niccomp.com/resource/files/aluminum/AlumApplInfoCautions.pdf>
If in doubt or uncertainty, please review your specific application - process details with NIC's technical support personnel: tpmg@niccomp.com



STANDARD PRODUCT, SPECIFICATIONS AND CASE SIZES D ϕ x L (mm)

Part Number	Cap. (μ F)	W.V. (Vdc)	Dissipation Factor +20°C/120Hz	Ripple Current Rating (mA) +85°C/120Hz	Max. ESR (Ω) +20°C/120Hz	Load Life Hours @ +85°C
NLE-S220M6.3V4x5F	22	6.3	0.24	28	18.1	1,000
NLE-S330M6.3V5x5F	33		0.24	37	12.1	1,000
NLE-S470M6.3V5x5F	47		0.24	45	8.47	1,000
NLE-S101M6.3V6.3x5F	100		0.24	70	3.98	1,000
NLE-S220M10V5x5F	22	10	0.20	33	15.1	1,000
NLE-S330M10V5x5F	33		0.20	41	10.1	1,000
NLE-S470M10V6.3x5F	47		0.20	52	7.06	1,000
NLE-S100M16V4x5F	10	16	0.16	23	26.6	1,000
NLE-S220M16V5x5F	22		0.16	37	12.1	1,000
NLE-S330M16V6.3x5F	33		0.16	49	8.05	1,000
NLE-S470M16V6.3x5F	47		0.16	58	5.64	1,000
NLE-S4R7M25V4x5F	4.7	25	0.14	18	49.4	1,000
NLE-S100M25V5x5F	10		0.14	27	23.3	1,000
NLE-S220M25V6.3x5F	22		0.14	42	10.6	1,000
NLE-S330M25V6.3x5F	33		0.14	52	7.04	1,000
NLE-S4R7M35V4x5F	4.7	35	0.12	18	42.4	1,000
NLE-S100M35V5x5F	10		0.12	29	19.9	1,000
NLE-S220M35V6.3x5F	22		0.12	46	9.05	1,000
NLE-SR10M50V4x5F	0.1	50	0.10	1.0	1660	1,000
NLE-SR22M50V4x5F	0.22		0.10	2.0	755	1,000
NLE-SR33M50V4x5F	0.33		0.10	2.8	503	1,000
NLE-SR47M50V4x5F	0.47		0.10	4.0	353	1,000
NLE-S1R0M50V4x5F	1.0		0.10	4.0	166	1,000
NLE-S2R2M50V4x5F	2.2		0.10	8.5	75.5	1,000
NLE-S3R3M50V4x5F	3.3		0.10	13	50.3	1,000
NLE-S4R7M50V5x5F	4.7		0.10	17	35.3	1,000
NLE-S100M50V6.3x5F	10		0.10	20	16.6	1,000