NIC Components Corp.

Issued: December 14th, 2022
SUB: EOL Notice

Product Type: Radial Leaded Low Leakage Aluminum Electrolytic Capacitors
NIC Series: NLE-L Series
Product Specification:
http://www.niccomp.com/products/catalog/nlel.pdf

Notification: End of Life Notification

The following is notice of the end of life for the NLE-L series of low leakage aluminum electrolytic capacitors. This end of life notification applies to all packaging (bulk and ammo pack) and lead configurations (cut, formed, etc.).

Effective: December 14th, 2022
Last Order Date: July 31st, 2023
Last Ship Date: December 31st, 2023

Reason for Discontinuation: Low Demand
Link to part number list in Excel

Discontinued Part Number	Capacitance	Voltage Rating	Case Size	Possible Alternate	Comment
NLE-L470M10V5x11_F	47	10	5x11	NRSS470M10V5x11_F	Higher Leakage Current
NLE-L101M10V6.3x11_F	100	10	6.3x11	NRSS101M25V6.3x11_F	Higher Leakage Current
NLE-L221M10V8x11.5_F	220	10	8x11.5	NRSS221M25V8x11.5_F	Higher Leakage Current
NLE-L331M10V10x12.5_F	330	10	10x12.5	NRSS331M35V10x12.5_F	Higher Leakage Current
NLE-L471M10V10x16_F	470	10	10x16	NRSS471M35V10x16_F	Higher Leakage Current
NLE-L102M10V12.5x20_F	1000	10	12.5x20	NRSS102M35V12.5x20_F	Higher Leakage Current
NLE-L222M10V16x25_F	2200	10	16x25	NRSS222M35V16x25_F	Higher Leakage Current
NLE-L100M16V5x11_F	10	16	5x11	NRSS100M16V5x11_F	Higher Leakage Current
NLE-L220M16V5x11_F	22	16	5x11	NRSS220M16V5x11_F	Higher Leakage Current
NLE-L330M16V5x11_F	33	16	5x11	NRSS330M16V5x11_F	Higher Leakage Current
NLE-L470M16V6.3x11_F	47	16	6.3x11	NRSS470M50V6.3x11_F	Higher Leakage Current
NLE-L101M16V8x11.5_F	100	16	8x11.5	NRSS101M50V8x11.5_F	Higher Leakage Current
NLE-L221M16V10x12.5_F	220	16	10x12.5	NRSS221M50V10x12.5_F	Higher Leakage Current
NLE-L331M16V10x16_F	330	16	10x16	NRSS331M50V10x16_F	Higher Leakage Current
NLE-L471M16V10x16_F	470	16	10x16	NRSS471M35V10x16_F	Higher Leakage Current
NLE-L102M16V12.5x20_F	1000	16	12.5x20	NRSS102M35V12.5x20_F	Higher Leakage Current
NLE-L222M16V16x25_F	2200	16	16x25	NRSS222M35V16x25_F	Higher Leakage Current
NLE-L4R7M25V5x11_F	4.7	25	5x11	NRSS4R7M25V5x11_F	Higher Leakage Current
NLE-L100M25V5x11_F	10	25	5x11	NRSS100M25V5x11_F	Higher Leakage Current
NLE-L220M25V5x11_F	22	25	5x11	NRSS220M25V5x11_F	Higher Leakage Current
NLE-L330M25V6.3x11_F	33	25	6.3x11	NRSS330M63V6.3x11_F	Higher Leakage Current
NLE-L470M25V6.3x11_F	47	25	6.3x11	NRSS470M63V6.3x11_F	Higher Leakage Current
NLE-L101M25V8x11.5_F	100	25	8x11.5	NRSS101M63V8x11.5_F	Higher Leakage Current
NLE-L221M25V10x16_F	220	25	10x16	NRSS221M63V10x16_F	Higher Leakage Current
NLE-L331M25V10x20_F	330	25	10x20	NRSS331M63V10x20_F	Higher Leakage Current
NLE-L471M25V12.5x20_F	470	25	12.5x20	NRSS471M63V12.5x20_F	Higher Leakage Current

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Discontinued Part Number	Capacitance	Voltage Rating	Case Size	Possible Alternate	Comment
NLE-L102M25V16x25_F	1000	25	16x25	NRSS102M63V16x25_F	Higher Leakage Current
NLE-L4R7M35V5x11_F	4.7	35	5x11	NRSS4R7M50V5x11_F	Higher Leakage Current
NLE-L100M35V5x11_F	10	35	5x11	NRSS100M50V5x11_F	Higher Leakage Current
NLE-L220M35V6.3x11_F	22	35	6.3x11	NRGB220M63V6.3x11_F	Higher Leakage Current
NLE-L330M35V6.3x11_F	33	35	6.3x11	NRSS330M63V6.3x11_F	Higher Leakage Current
NLE-L470M35V8x11.5_F	47	35	8x11.5	NRGB470M63V8x11.5_F	Higher Leakage Current
NLE-L101M35V10x12.5_F	100	35	10x12.5	NRSZ101M50V10x12.5_F	Higher Leakage Current
NLE-L221M35V10x20_F	220	35	10x20	NRSS221M63V10x16_F	Higher Leakage Current
NLE-L331M35V12.5x25_F	330	35	12.5x25	NRSS331M100V12.5x25_F	Higher Leakage Current
NLE-L471M35V12.5x25_F	470	35	12.5x25	NRSS471M63V12.5x20_F	Higher Leakage Current
NLE-L102M35V16x25_F	1000	35	16x25	NRSS102M63V16x25_F	Higher Leakage Current
NLE-L2R2M50V5x11_F	2.2	50	5x11	NRSS2R2M50V5x11_F	Higher Leakage Current
NLE-L3R3M50V5x11_F	3.3	50	5x11	NRSS3R3M50V5x11_F	Higher Leakage Current
NLE-L4R7M50V5x11_F	4.7	50	5x11	NRSS4R7M50V5x11_F	Higher Leakage Current
NLE-L100M50V5x11_F	10	50	5x11	NRSS100M50V5x11_F	Higher Leakage Current
NLE-L220M50V6.3x11_F	22	50	6.3x11	NRGB220M63V6.3x11_F	Higher Leakage Current
NLE-L330M50V8x11.5_F	33	50	8x11.5	NRSS330M100V8x11.5_F	Higher Leakage Current
NLE-L470M50V8x11.5_F	47	50	8x11.5	NRGB470M63V8x11.5_F	Higher Leakage Current
NLE-L101M50V10x16_F	100	50	10x16	NRSZ101M50V10x12.5_F	Higher Leakage Current
NLE-L221M50V12.5x20_F	220	50	12.5x20	NRE-WY221M63V12.5x20_F	Higher Leakage Current
NLE-L331M50V12.5x25_F	330	50	12.5x25	NRSS331M100V12.5x25_F	Higher Leakage Current
NLE-L471M50V16x25_F	470	50	16x25	NRSS471M100V16x25_F	Higher Leakage Current

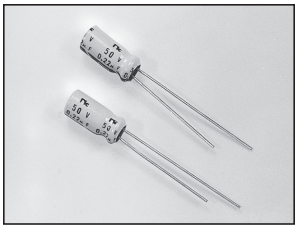
Prepared by: Technical Product Marketing Group / tpmg@niccomp.com
➔Follow NIC PCN alerts to get email notifications of EOL and PCN announcements at www.niccomp.com/pcn

Use our Quickbuilder tool to find possible alternatives for the discontinued parts:
http://www.niccomp.com/QuickBUILDER/qb_capacitor.php

Miniature Aluminum Electrolytic Capacitors

NLE-L Series

LOW LEAKAGE CURRENT AND LONG LIFE ALUMINUM
ELECTROLYTIC CAPACITORS, POLARIZED, RADIAL LEADS



FEATURES

- LOW LEAKAGE CURRENT & LOW NOISE
- NEW REDUCED SIZES (Alternate Sizes on Request)

RoHS Compliant
includes all homogeneous materials

*See Part Number System for Details

CHARACTERISTICS

Rated Voltage Range	10 ~ 50Vdc					
Capacitance Range	2.2 ~ 2200µF					
Operating Temperature Range	-40 ~ +85°C					
Capacitance Tolerance	±20%(M)					
Max. Leakage Current After 2 minutes At +20°C	0.002CV or 0.4µA, whichever is greater					
Surge Voltage & Max. Tan δ @ 120Hz/+20°C	W.V. (Vdc)	10	16	25	35	50
	S.V. (Vdc)	13	20	32	44	63
	Tan δ	0.16	0.13	0.12	0.10	0.08
Low Temperature Stability (Impedance Ratio @ 120Hz)	Z-25°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 at Rated W.V. & +85°C 2,000 Hours for 5 ~ 10mm diameter 4,000 Hours for 12.5mm & up	Capacitance Change	Within ±20% of initial measured value				
	Tan δ	Less than 200% of specified maximum value				
	Leakage Current	Less than specified maximum value				

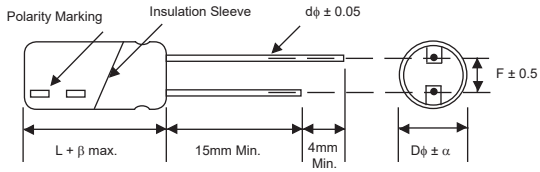
STANDARD PRODUCT AND CASE SIZE TABLE Dϕ x L (mm)

Cap. (µF)		Working Voltage (Vdc)				
		10	16	25	35	50
2.2	2R2	-	-	-	-	5x11
3.3	3R3	-	-	-	-	5x11
4.7	4R7	-	-	5x11	5x11	5x11
10	100	-	5x11	5x11	5x11	5x11
22	220	-	5x11	5x11	6.3x11	6.3x11
33	330	-	5x11	6.3x11	6.3x11	8x11.5
47	470	5x11	6.3x11	6.3x11	8x11.5	8x11.5
100	101	6.3x11	8x11.5	8x11.5	10x12.5	10x16
220	221	8x11.5	10x12.5	10x16	10x20	12.5x20
330	331	10x12.5	10x16	10x20	12.5x25	12.5x25
470	471	10x16	10x16	12.5x20	12.5x25	16x25
1000	102	12.5x20	12.5x20	16x25	16x25	-
2200	222	16x25	16x25	-	-	-

LEAD SPACING AND DIAMETER (mm)

Case Dia. (Dϕ)	5	6.3	8	10	12.5	16
Lead Dia. (dϕ)	0.5	0.5	0.6	0.6	0.6	0.8
Lead Spacing (F)	2.0	2.5	3.5	5.0	5.0	7.5
Dim. α	0.5	0.5	0.5	0.5	0.5	0.5

DIMENSIONS (mm)



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. (µF)	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-L470M10V5x11F	47	10	0.16	110	5.29	2,000
NLE-L101M10V6.3x11F	100		0.16	180	2.49	2,000
NLE-L221M10V8x11.5F	220		0.16	300	1.13	2,000
NLE-L331M10V10x12.5F	330		0.16	400	0.76	2,000
NLE-L471M10V10x16F	470		0.16	500	0.53	2,000
NLE-L102M10V12.5x20F	1000		0.16	800	0.25	4,000
NLE-L222M10V16x25F	2200		0.16	1200	0.12	4,000
NLE-L100M16V5x11F	10	16	0.13	65	19.9	2,000
NLE-L220M16V5x11F	22		0.13	95	9.05	2,000
NLE-L330M16V5x11F	33		0.13	100	6.03	2,000
NLE-L100M16V6.3x11F	47		0.13	140	4.23	2,000
NLE-L101M16V8x11.5F	100		0.13	230	1.99	2,000
NLE-L221M16V10x12.5F	220		0.13	350	0.91	2,000
NLE-L331M16V10x16F	330		0.13	450	0.61	2,000
NLE-L471M16V10x16F	470		0.13	550	0.43	2,000
NLE-L102M16V12.5x20F	1000		0.13	900	0.20	4,000
NLE-L222M16V16x25F	2200		0.13	1300	0.09	4,000
NLE-L4R7M25V5x11F	4.7	25	0.12	45	26.2	2,000
NLE-L100M25V5x11F	10		0.12	65	13.3	2,000
NLE-L220M25V5x11F	22		0.12	100	6.03	2,000
NLE-L330M25V6.3x11F	33		0.12	140	4.02	2,000
NLE-L470M25V6.3x11F	47		0.12	170	2.82	2,000
NLE-L101M25V8x11.5F	100		0.12	280	1.33	2,000
NLE-L221M25V10x16F	220		0.12	400	0.61	2,000
NLE-L331M25V10x20F	330		0.12	500	0.41	2,000
NLE-L471M25V12.5x20F	470		0.12	650	0.29	4,000
NLE-L102M25V16x25F	1000		0.12	1000	0.14	4,000
NLE-L4R7M35V5x11F	4.7	35	0.10	45	28.2	2,000
NLE-L100M35V5x11F	10		0.10	70	13.3	2,000
NLE-L220M35V6.3x11F	22		0.10	110	6.03	2,000
NLE-L330M35V6.3x11F	33		0.10	140	4.02	2,000
NLE-L470M35V8x11.5F	47		0.10	190	2.82	2,000
NLE-L101M35V10x12.5F	100		0.10	300	1.33	2,000
NLE-L221M35V10x20F	220		0.10	450	0.41	2,000
NLE-L331M35V12.5x25F	330		0.10	550	0.41	4,000
NLE-L471M35V12.5x25F	470		0.10	700	0.29	4,000
NLE-L102M35V16x25F	1000		0.10	1100	0.14	4,000
NLE-L2R2M50V5x11F	2.2	50	0.08	23	60.3	2,000
NLE-L3R3M50V5x11F	3.3		0.08	40	40.2	2,000
NLE-L4R7M50V5x11F	4.7		0.08	45	28.2	2,000
NLE-L100M50V5x11F	10		0.08	70	13.3	2,000
NLE-L220M50V6.3x11F	22		0.08	110	6.03	2,000
NLE-L330M50V8x11.5F	33		0.08	170	4.02	2,000
NLE-L470M50V8x11.5F	47		0.08	200	2.82	2,000
NLE-L101M50V10x16F	100		0.08	350	1.33	2,000
NLE-L221M50V12.5x20F	220		0.08	500	0.41	4,000
NLE-L331M50V12.5x25F	330		0.08	600	0.41	4,000
NLE-L471M50V16x25F	470		0.08	800	0.29	4,000

PART NUMBER SYSTEM

NLE-L 2R2 M 50V 5x11 F

- F — RoHS Compliant
- 5x11 — Size (D∅ x L)
- 50V — Rated Voltage
- M — Tolerance Code
- 2R2 — Capacitance Code
- NLE-L — Series