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Issued: May 30th, 2017

SUB: EOL Notice

Product Type: Aluminum Electrolytic Capacitors

NIC Series: NACV, NLE-L, **NRE-LW** and NRWA Series (Specific Part Numbers)

Notification: End of Life Notification

The following is notification of the end of life of the aluminum electrolytic capacitor part numbers referenced in table 1 below. This end of life notice covers all lead and packaging configurations for the part numbers referenced in table 1.

Effective: May 30th, 2017

Last Order Date: November 30th, 2017 for existing business with established customers

Last Ship Date: May 30th, 2018 for existing business with established customers

Reason for Discontinuation: Low Demand

Prepared by: Technical Product Marketing Group / tpmg@niccomp.com

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Discontinued Part Number	Cap. (μF)	Voltage (VDC)	Case Size (mm)	Possible Alternative	Comments
NACV1R0M400V8X10.8TR13F	1.0	400	8x10.8	NACV2R2M400V8x10.8TR13F	Higher Capacitance
NLE-L1R0M50V5X11F	1.0	50	5X11	N/A	N/A
NRWAR47M50V5X11F	0.47	50	5x11	NRWP1R0M50V5x11F	Higher Capacitance
NRWAR47M100V5X11F	0.47	100	5x11	NRWP1R0M100V5x11F	Higher Capacitance
NRWA1R0M50V5X11F	1.0	50	5x11	NRWP1R0M50V5x11F	N/A
NRWA1R0M100V5X11F	1.0	100	5x11	NRWP1R0M100V5x11F	N/A
NRE-LW102M10V12.5X15F	1000	10	12.5x15	NRSZ102M10V12.5X16F	16mm height
NRE-LW222M10V16X16F	2200	10	16x16	NRE-HL222M10V16X16F	N/A
NRE-LW332M10V16X21F	3300	10	16x21	NRE-HS332M10V16X16F	Lower RCR
NRE-LW472M10V18X21F	4700	10	18x21	NRSH472M10V16X20F	N/A
NRE-LW471M16V10X12.5F	470	16	10x12.5	NRE-HL471M16V10X12.5F	N/A
NRE-LW102M16V16X16F	1000	16	16x16	NRSZ102M25V16X16F	N/A
NRE-LW222M16V16X21F	2200	16	16x21	NRSZ222M16V16X21F	N/A
NRE-LW331M25V10X12.5F	330	25	10x12.5	NRE-HL331M25V10X12.5F	N/A
NRE-LW471M25V12.5X16F	470	25	12.5x16	NRSZ471M25V12.5X16F	N/A
NRE-LW102M25V16X21F	1000	25	16x21	NRSZ102M25V16X16F	N/A
NRE-LW222M25V16X21F	2200	25	16x21	NRE-HS222M25V16X20F	N/A
NRE-LW221M35V10X12.5F	220	35	10x12.5	NRE-HL221M35V10X12.5F	N/A
NRE-LW331M35V12.5X16F	330	35	12.5x16	NRSZ331M35V12.5X16F	N/A
NRE-LW471M35V16X16F	470	35	16x16	NRE-HL471M50V16X16F	N/A
NRE-LW102M35V16X21F	1000	35	16x21	NRSZ102M35V16X21F	N/A
NRE-LW221M50V10X12.5F	220	50	10x12.5	NRSY221M50V10X12.5F	N/A
NRE-LW331M50V16X16F	330	50	16x16	NRZJ331M80V16X20F	20mm height
NRE-LW471M50V16X21F	470	50	16x21	NRSZ471M50V16X16F	N/A
NRE-LW101M63V10X12.5F	100	63	10x12.5	NRSZ101M63V10X12.5F	N/A
NRE-LW221M63V16X16F	220	63	16x16	NRWP221M63V10X16F	N/A
NRE-LW331M63V16X21F	330	63	16x21	NRZJ331M80V16X20F	N/A
NRE-LW470M100V10X12.5F	47	100	10x12.5	NRWS470M100V10X12.5F	N/A
NRE-LW101M100V16X16F	100	100	16x16	NRB-XZ101M160V18X16F	18mm diameter
NRE-LW221M100V16X21F	220	100	16x21	NRSG221M100V16X20F	N/A

Use our Quickbuilder tool to find possible alternatives for the discontinued NRE-LW series parts:

http://www.niccomp.com/QuickBUILDER/qb_capacitor.php

LOW PROFILE, WIDE TEMPERATURE, RADIAL LEAD, POLARIZED

FEATURES

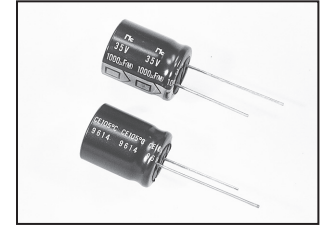
- LOW PROFILE APPLICATIONS
- WIDE TEMPERATURE 105°C
- HIGH STABILITY AND PERFORMANCE

**RoHS
Compliant**
includes all homogeneous materials

*See Part Number System for Details

CHARACTERISTICS

Rated Voltage Range		10 ~ 100Vdc						
Capacitance Range		47 ~ 4,700 μ F						
Operating Temperature Range		-40 ~ +105°C						
Capacitance Tolerance		$\pm 20\%$ (M)						
Max. Leakage Current @ 20°C	After 1 min.	0.03CV or 4 μ A whichever is greater						
	After 2 min.	0.01CV or 3 μ A whichever is greater						
Max. Tan δ @ 120Hz/20°C	W.V. (Vdc)	10	16	25	35	50	63	100
	S.V. (Vdc)	13	20	32	44	63	79	125
	C $\leq$ 1,000 μ F	0.20	0.16	0.14	0.12	0.10	0.09	0.08
	C $\leq$ 2,200 μ F	0.22	0.18	0.16	-	-	-	-
	C $\leq$ 3,300 μ F	0.24	-	-	-	-	-	-
	C $\leq$ 4,700 μ F	0.26	-	-	-	-	-	-
Low Temperature Stability Impedance Ratio @ 120Hz	W.V. (Vdc)	10	16	25	35	50	63	100
	Z-25°C/Z+20°C	3	3	2	2	2	2	2
	Z-40°C/Z+20°C	8	6	4	3	3	3	3
Load Life Test at Rated W.V. 105°C 1,000 Hours	Capactance Change	Within 20% of initial measured value						
	Tan δ	Less than 200% of specified maximum value						
	Leakage Current	Less than specified maximum value						



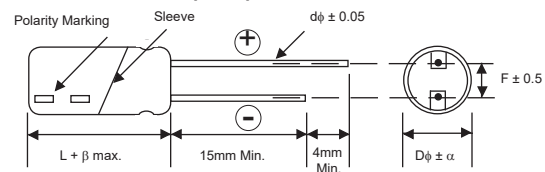
STANDARD PRODUCT AND CASE SIZE TABLE D ϕ xL (mm)

Cap (μ F)	Code	Working Voltage (Vdc)						
		10	16	25	35	50	63	100
47	470	-	-	-	-	-	-	10x12.5
100	101	-	-	-	-	-	10x12.5	16x16
220	221	-	-	-	10x12.5	10x12.5	16x16	16x21
330	331	-	-	10x12.5	12.5x16	16x16	16x21	-
470	471	-	10x12.5	12.5x16	16x16	16x21	-	-
1,000	102	12.5x15	16x16	16x21	16x21	-	-	-
2,200	222	16x16	16x21	16x21	-	-	-	-
3,300	332	16x21	-	-	-	-	-	-
4,700	472	18x21	-	-	-	-	-	-

LEAD SPACING AND DIAMETER (mm)

Case Dia. (D ϕ)	5	6.3	8	10	12.5	16	18	22
Lead 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

DIMENSIONS (mm)



Drawing is representative of parts as supplied in bulk or straight lead format, please see taping specification for details on taped format packaging.

STANDARD VALUES, SPECIFICATIONS AND CASE SIZES (mm)

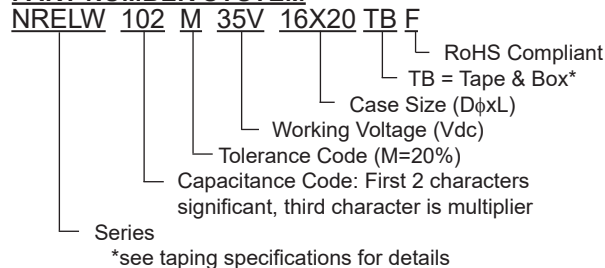
Part Number	Cap. (μF)	W.V. (Vdc)	Dissipation Factor +20°C/120Hz	Ripple Current Rating (mA) +105°C/120Hz	Max. ESR (Ω) +20°C/120Hz	Load Life Hours @+105°C
NRE-LW102M10V12.5x15F	1,000	10	0.20	470	0.33	1,000
NRE-LW222M10V16x16F	2,200		0.22	780	0.17	1,000
NRE-LW332M10V16x21F	3,300		0.24	1000	0.12	1,000
NRE-LW472M10V18x21F	4,700		0.26	1200	0.09	1,000
NRE-LW471M16V10x12.5F	470	16	0.16	340	0.56	1,000
NRE-LW102M16V16x16F	1,000		0.16	630	0.27	1,000
NRE-LW222M16V16x21F	2,200		0.18	940	0.14	1,000
NRE-LW331M25V10x12.5F	330	25	0.14	310	0.70	1,000
NRE-LW471M25V12.5x16F	470		0.14	390	0.49	1,000
NRE-LW102M25V16x21F	1,000		0.14	720	0.23	1,000
NRE-LW222M25V16x21F	2,200		0.16	1080	0.12	1,000
NRE-LW221M35V10x12.5F	220	35	0.12	270	0.90	1,000
NRE-LW331M35V12.5x16F	330		0.12	350	0.60	1,000
NRE-LW471M35V16x16F	470		0.12	490	0.42	1,000
NRE-LW102M35V16x21F	1,000		0.12	840	0.20	1,000
NRE-LW221M50V10x12.5F	220	50	0.10	310	0.75	1,000
NRE-LW331M50V16x16F	330		0.10	440	0.50	1,000
NRE-LW471M50V16x21F	470		0.10	570	0.35	1,000
NRE-LW101M63V10x12.5F	100	63	0.09	210	1.49	1,000
NRE-LW221M63V16x16F	220		0.09	380	0.25	1,000
NRE-LW331M63V16x21F	330		0.09	525	0.68	1,000
NRE-LW470M100V10x12.5F	47	100	0.08	240	2.82	1,000
NRE-LW101M100V16x16F	100		0.08	275	1.33	1,000
NRE-LW221M100V16x21F	220		0.08	490	0.60	1,000

RIPPLE CURRENT CORRECTION FACTORS

Frequency Factor

W.V. (Vdc)	Cap (μF)	Working Voltage (Vdc)			
		50	120	1K	10K
6.3~16	ALL	0.8	1.0	1.1	1.2
25~35	≤1000	0.8	1.0	1.5	1.7
	1000<	0.8	1.0	1.2	1.3
50~100	≤1000	0.8	1.0	1.6	1.9
	1000<	0.8	1.0	1.2	1.3

PART NUMBER SYSTEM



PRECAUTIONS

Please review the notes on correct use, safety and precautions found at <https://www.nicomp.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@nicomp.com

