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Issued: July 30, 2018

SUB: EOL Notice

Product Type: Miniature Radial Leaded Aluminum Electrolytic Capacitors
NIC Series: NRE-S

Notification: End of Life Notification

The following is notification of the end of life of the NRE-S series of miniature radial leaded aluminum electrolytic capacitors.

Effective: July 30, 2018
Last Order Date: March 31, 2019
Last Ship Date: June 30, 2019

Reason for Discontinuation: Low demand due to transition from leaded to surface mount devices
Prepared by: Technical Product Marketing Group / tpmg@niccomp.com

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See the possible alternative part numbers in the table below or use our Quickbuilder tool to find other possible alternatives for the discontinued part numbers: http://www.niccomp.com/QuickBUILDER/gb_capacitor.php

Discontinued Part Numbers	Series	Voltage	Capacitance	Radial Leaded Alternatives	Case Size	Surface Mount Alternatives	Case Size
NRE-S220M6.3V4X7F	NRE-S	6.3	22	NRE-SW220M6.3V4X7F	4X7	NASE220M6.3V4X5.5NBF	4X5.5
NRE-S330M6.3V4X7F	NRE-S	6.3	33	NRE-SW330M6.3V5X7F	4X7	NACH330M6.3V4X6.3TR13F	4X6.3
NRE-S470M6.3V4X7F	NRE-S	6.3	47	NRE-SW470M6.3V5X7F	4X7	NACS470M6.3V4X5.5TR13F	4X5.5
NRE-S101M6.3V5X7F	NRE-S	6.3	100	NRE-SW101M6.3V6.3X7F	5X7	NACS101M6.3V5X5.5TR13F	5X5.5
NRE-S221M6.3V6.3X7F	NRE-S	6.3	220	NRE-SW221M6.3V6.3X7F	6.3X7	NACE221M6.3V6.3X6.3TR13F	6.3X6.3
NRE-S331M6.3V6.3X7F	NRE-S	6.3	330	NRE-SW331M6.3V6.3X7F	6.3X7	NASE331M6.3V6.3X8NBF	6.3X8
NRE-S220M10V4X7F	NRE-S	10	22	NRE-SW220M10V5X7F	4X7	NACE220M10V4X5.5TR13F	4X5.5
NRE-S330M10V4X7F	NRE-S	10	33	NRE-SW330M10V5X7F	4X7	NACS330M10V4X5.5TR13F	4X5.5
NRE-S470M10V5X7F	NRE-S	10	47	NRE-SW470M10V6.3X7F	5X7	NACS470M10V5X5.5TR13F	5X5.5
NRE-S101M10V6.3X7F	NRE-S	10	100	NRE-SW101M10V6.3X7F	6.3X7	NASE101M10V6.3X5.5NBF	6.3X5.5
NRE-S221M10V6.3X7F	NRE-S	10	220	NRE-SW221M10V6.3X7F	6.3X7	NASE221M10V6.3X8NBF	6.3X8
NRE-S100M16V4X7F	NRE-S	16	10	NRE-SW100M16V4X7F	4X7	NACE100M16V4X5.5TR13F	4X5.5
NRE-S220M16V4X7F	NRE-S	16	22	NRE-SW220M16V5X7F	4X7	NAWP220M16V4X5.5LBF	4X5.5
NRE-S330M16V5X7F	NRE-S	16	33	NRE-SW330M16V6.3X7F	5X7	NAWP330M16V5X5.5LBF	5X5.5
NRE-S470M16V5X7F	NRE-S	16	47	NRE-SW470M16V6.3X7F	5X7	NACS470M16V5X5.5TR13F	5X5.5
NRE-S101M16V6.3X7F	NRE-S	16	100	NRE-SW101M16V6.3X7F	6.3X7	NACE101M6.3V6.3X5.5TR13F	6.3X5.5
NRE-S221M16V6.3X7F	NRE-S	16	220	NRE-SW221M16V6.3X7F	6.3X7	NAZH221M16V6.3X6.1NBF	6.3X6.1
NRE-S100M25V4X7F	NRE-S	25	10	NRE-SW100M25V5X7F	4X7	NASE100M25V4X5.5NBF	4X5.5
NRE-S220M25V5X7F	NRE-S	25	22	NRE-SW220M25V6.3X7F	5X7	NAWP220M25V5X5.5LBF	5X5.5
NRE-S330M25V5X7F	NRE-S	25	33	NRE-SW330M25V6.3X7F	5X7	NAWP330M25V5X5.5LBF	5X5.5



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Discontinued Part Numbers	Series	Voltage	Capacitance	Radial Leaded Alternatives	Case Size	Surface Mount Alternatives	Case Size
NRE-S470M25V6.3X7F	NRE-S	25	47	NRE-SW470M25V6.3X7F	6.3X7	NAWP470M25V6.3X5.5LBF	6.3X5.5
NRE-S101M25V6.3X7F	NRE-S	25	100	NRE-SW101M25V6.3X7F	6.3X7	NAZH101M25V6.3X6.1NBF	6.3X6.1
NRE-S4R7M35V4X7F	NRE-S	35	4.7	NRE-SW4R7M35V4X7F	4X7	NACE4R7M35V4X5.5TR13F	4X5.5
NRE-S100M35V4X7F	NRE-S	35	10	NRE-SW100M35V5X7F	5X7	NAWP100M35V4X5.5LBF	4X5.5
NRE-S220M35V5X7F	NRE-S	35	22	NRE-SW220M35V6.3X7F	6.3X7	NAWP220M35V5X5.5LBF	5X5.5
NRE-S330M35V6.3X7F	NRE-S	35	33	NRE-SW330M35V6.3X7F	6.3X7	NASE330M35V6.3X5.5NBF	6.3X5.5
NRE-S470M35V6.3X7F	NRE-S	35	47	NRE-SW470M35V6.3X7F	6.3X7	NACE470M35V6.3X6.3TR13F	6.3X6.3
NRE-S101M35V6.3X7F	NRE-S	35	100	NRE-SW101M35V6.3X7F	6.3X7	NAZH101M35V6.3X6.1NBF	6.3X6.1
NRE-S1R0M50V4X7F	NRE-S	50	1	NRE-SW1R0M50V4X7F	4X7	NACE1R0M50V4X5.5TR13F	4X5.5
NRE-S2R2M50V4X7F	NRE-S	50	2.2	NRE-SW2R2M50V4X7F	4X7	NACE2R2M50V4X5.5TR13F	4X5.5
NRE-S3R3M50V4X7F	NRE-S	50	3.3	NRE-SW3R3M50V4X7F	4X7	NACE3R3M50V4X5.5TR13F	4X5.5
NRE-S4R7M50V4X7F	NRE-S	50	4.7	NRE-SW4R7M50V5X7F	5X7	NAWP4R7M50V4X5.5LBF	4X5.5
NRE-S100M50V5X7F	NRE-S	50	10	NRE-SW100M50V6.3X7F	6.3X7	NAWP100M50V5X5.5LBF	5X5.5
NRE-S220M50V6.3X7F	NRE-S	50	22	NRE-SW220M50V6.3X7F	6.3X7	NASE220M50V6.3X5.5NBF	6.3X5.5
NRE-S330M50V6.3X7F	NRE-S	50	33	NRE-SW330M50V6.3X7F	6.3X7	NASE330M50V6.3X8NBF	6.3X8
NRE-S470M50V6.3X7F	NRE-S	50	47	NRE-SW470M50V6.3X7F	6.3X7	NAZH470M50V6.3X6.1NBF	6.3X6.1
NRE-S1R0M63V4X7F	NRE-S	63	1	NA	NA	NACE1R0M63V4X5.5TR13F	4X5.5
NRE-S2R2M63V4X7F	NRE-S	63	2.2	NA	NA	NACE2R2M63V4X5.5TR13F	4X5.5
NRE-S3R3M63V4X7F	NRE-S	63	3.3	NA	NA	NACEW3R3M63V4X5.5TR13F	4X5.5
NRE-S4R7M63V5X7F	NRE-S	63	4.7	NA	NA	NACE4R7M63V5X5.5TR13F	5X5.5
NRE-S100M63V6.3X7F	NRE-S	63	10	NA	NA	NACE100M63V6.3X5.5TR13F	6.3X5.5
NRE-S220M63V6.3X7F	NRE-S	63	22	NA	NA	NACEW220M63V6.3X6.3TR13F	6.3X6.3

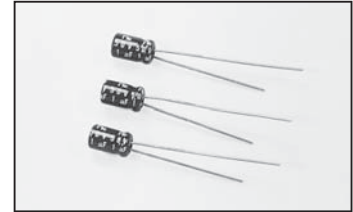
SUBMINIATURE, RADIAL LEADS, POLARIZED

FEATURES

- LOW PROFILE, 7mm HEIGHT
- STABLE & HIGH PERFORMANCE

RoHS Compliant
includes all homogeneous materials

*See Part Number System for Details



CHARACTERISTICS

Rated Voltage Range	6.3 ~ 63Vdc								
Capacitance Range	1.0 ~ 220μF								
Operating Temperature Range	-40 ~ +85°C								
Capacitance Tolerance	±20%(M)								
Max. Leakage Current @ 20°C After 2 min.	0.01CV or 3μA, whichever is greater								
Max. Tan δ @ 120Hz/+20°C	W.V. (Vdc)	6.3	10	16	25	35	50	63	
	S.V. (Vdc)	8	13	20	32	44	63	79	
	Tan δ	0.24	0.20	0.16	0.14	0.12	0.10	0.08	
Low Temperature Stability Impedance Ratio @ 120Hz	Z-25°C/Z+20°C	4	3	2	2	2	2	2	
	Z-40°C/Z+20°C	10	8	6	4	4	4	4	
Load Life Test at Rated W.V. +85°C 1,000 Hours	Capacitance Change	Within ±25% 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 x L (mm)

Cap. (μF)	Code	Working Voltage (Vdc)							
		6.3	10	16	25	35	50	63	
1.0	1R0	-	-	-	-	-	4x7	4x7	
2.2	2R2	-	-	-	-	-	4x7	4x7	
3.3	3R3	-	-	-	-	-	4x7	4x7	
4.7	4R7	-	-	-	-	4x7	4x7	5x7	
10	100	-	-	4x7	4x7	4x7	5x7	6.3x7	
22	220	4x7	4x7	4x7	5x7	5x7	6.3x7	6.3x7	
33	330	4x7	4x7	5x7	5x7	6.3x7	6.3x7	-	
47	470	4x7	5x7	5x7	6.3x7	6.3x7	6.3x7	-	
100	101	5x7	6.3x7	6.3x7	6.3x7	6.3x7	-	-	
220	221	6.3x7	6.3x7	6.3x7	-	-	-	-	
330	331	6.3x7	-	-	-	-	-	-	

PART NUMBERING SYSTEM

NRE-S 100 M 35V 4X7 TB F

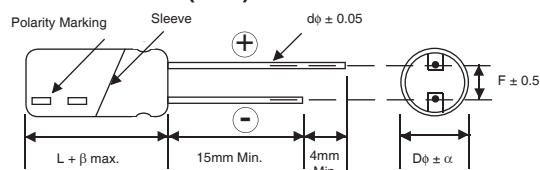
- Series
- Capacitance Code: First 2 characters significant, third character is multiplier
- Tolerance Code (M=20%)
- Working Voltage (Vdc)
- Case Size (Dφ x L)
- TB = Tape & Box*
- RoHS Compliant

*see taping specifications for details

LEAD SPACING AND DIAMETER (mm)

Case Dia. (Dφ)	4	5	6.3
Lead Dia. (dφ)	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

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.

PRECAUTIONS

Please review the notes on correct use, safety and precautions found on pages T10 & T11 of NIC's **Electrolytic Capacitor catalog**.
Also found at www.niccomp.com/precautions
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
NRE-S220M6.3V4x7F	22	6.3	0.24	29	18.1	1,000
NRE-S330M6.3V4x7F	33		0.24	38	12.1	1,000
NRE-S470M6.3V4x7F	47		0.24	46	8.47	1,000
NRE-S101M6.3V5x7F	100		0.24	70	3.98	1,000
NRE-S221M6.3V6.3x7F	220		0.24	95	2.49	1,000
NRE-S331M6.3V6.3x7F	330		0.24	110	2.21	1,000
NRE-S220M10V4x7F	22	10	0.20	35	15.1	1,000
NRE-S330M10V4x7F	33		0.20	43	10.1	1,000
NRE-S470M10V5x7F	47		0.20	53	7.06	1,000
NRE-S101M10V6.3x7F	100		0.20	80	3.32	1,000
NRE-S221M10V6.3x7F	220		0.20	110	1.51	1,000
NRE-S100M16V4x7F	10		16	0.16	25	26.6
NRE-S220M16V4x7F	22	0.16		39	12.1	1,000
NRE-S330M16V5x7F	33	0.16		49	8.05	1,000
NRE-S470M16V5x7F	47	0.16		59	5.65	1,000
NRE-S101M16V6.3x7F	100	0.16		120	2.88	1,000
NRE-S221M16V6.3x7F	220	0.16		110	1.21	1,000
NRE-S100M25V4x7F	10	25	0.14	27	23.3	1,000
NRE-S220M25V5x7F	22		0.14	43	10.6	1,000
NRE-S330M25V5x7F	33		0.14	63	7.04	1,000
NRE-S470M25V6.3x7F	47		0.14	70	4.85	1,000
NRE-S101M25V6.3x7F	100		0.14	100	2.33	1,000
NRE-S4R7M35V4x7F	4.7		35	0.12	20	42.4
NRE-S100M35V4x7F	10	0.12		29	19.9	1,000
NRE-S220M35V5x7F	22	0.12		47	9.05	1,000
NRE-S330M35V6.3x7F	33	0.12		60	6.03	1,000
NRE-S470M35V6.3x7F	47	0.12		75	4.24	1,000
NRE-S101M35V6.3x7F	100	0.12		105	1.90	1,000
NRE-S1R0M50V4x7F	1.0	50	0.10	9.0	188	1,000
NRE-S2R2M50V4x7F	2.2		0.10	15	75.4	1,000
NRE-S3R3M50V4x7F	3.3		0.10	18	50.3	1,000
NRE-S4R7M50V4x7F	4.7		0.10	23	35.3	1,000
NRE-S100M50V5x7F	10		0.10	34	16.6	1,000
NRE-S220M50V6.3x7F	22		0.10	55	7.54	1,000
NRE-S330M50V6.3x7F	33		0.10	70	4.80	1,000
NRE-S470M50V6.3x7F	47		0.10	80	3.53	1,000
NRE-S1R0M63V4x7F	1.0	63	0.08	10	133	1,000
NRE-S2R2M63V4x7F	2.2		0.08	17	60.4	1,000
NRE-S3R3M63V4x7F	3.3		0.08	21	40.4	1,000
NRE-S4R7M63V5x7F	4.7		0.08	26	26.3	1,000
NRE-S100M63V6.3x7F	10		0.08	43	6.04	1,000
NRE-S220M63V6.3x7F	22		0.08	65	4.04	1,000



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[NPIM74C3R3MTRF](#) [NPI104C100MTRF](#) [NRLM102M100V25X25F](#) [NRLM223M50V 35X50F](#)