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Issued: August 1, 2018

SUB: EOL Notice

Product Type: Miniature Radial Leaded Aluminum Electrolytic Capacitors
NIC Series: NSR, NSRN, NSRW and NSRZ

Notification: End of Life Notification

The following is notification of the end of life of the NSR, NSRN, NSRW and NSRZ series of miniature radial leaded aluminum electrolytic capacitors.

Effective: August 1, 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
NSR221M4V6.3X5F	NSR	4	220	NA	NA	NACE221M4V6.3X5.5TR13F	6.3X5.5
NSR331M4V6.3X5F	NSR	4	330	NA	NA	NACE331M4V6.3X6.3TR13F	6.3X6.3
NSR471M4V8X5F	NSR	4	470	NA	NA	NACE471M4V6.3X8TR13F	6.3X8
NSR101M6.3V6.3X5F	NSR	6.3	100	NA	NA	NACE101M6.3V6.3X5.5TR13F	6.3X5.5
NSR221M6.3V6.3X5F	NSR	6.3	220	NA	NA	NAWP221M6.3V6.3X5.5LBF	6.3X5.5
NSR331M6.3V6.3X5F	NSR	6.3	330	NA	NA	NAZH331M6.3V6.3X6.1NBF	6.3X6.1
NSR470M10V6.3X5F	NSR	10	47	NA	NA	NACE470M10V6.3X5.5TR13F	6.3X5.5
NSR101M10V6.3X5F	NSR	10	100	NA	NA	NACE101M10V6.3X5.5TR13F	6.3X5.5
NSR221M10V6.3X5F	NSR	10	220	NA	NA	NAZH221M10V6.3X6.1NBF	6.3X6.1
NSR330M16V6.3X5F	NSR	16	33	NA	NA	NACE330M16V6.3X5.5TR13F	6.3X5.5
NSR470M16V6.3X5F	NSR	16	47	NRE-SW470M16V6.3X7F	6.3X7	NACE470M16V6.3X5.5TR13F	6.3X5.5
NSR101M16V6.3X5F	NSR	16	100	NRE-SW101M16V6.3X7F	6.3X7	NACE101M16V6.3X5.5TR13F	6.3X5.5
NSR220M25V6.3X5F	NSR	25	22	NA	NA	NACE220M25V6.3X5.5TR13F	6.3X5.5
NSR330M25V6.3X5F	NSR	25	33	NA	NA	NACE330M25V6.3X5.5TR13F	6.3X5.5
NSR470M25V6.3X5F	NSR	25	47	NA	NA	NACK470M25V6.3X6.1TR13F	6.3X6.1
NSR101M25V8X5F	NSR	25	100	NA	NA	NACE101M25V8X6.5TR13F	8X6.5
NSR220M35V6.3X5F	NSR	35	22	NA	NA	NACE220M35V6.3X5.5TR13F	6.3X5.5
NSR330M35V6.3X5F	NSR	35	33	NA	NA	NASE330M35V6.3X5.5NBF	6.3X5.5
NSR470M35V6.3X5F	NSR	35	47	NA	NA	NACK470M35V6.3X6.1TR13F	6.3X6.1
NSR100M50V6.3X5F	NSR	50	10	NA	NA	NACE100M50V6.3X5.5TR13F	6.3X5.5



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Discontinued Part Numbers	Series	Voltage	Capacitance	Radial Leaded Alternatives	Case Size	Surface Mount Alternatives	Case Size
NSR220M50V6.3X5F	NSR	50	22	NA	NA	NASE220M50V6.3X5.5NBF	6.3X5.5
NSRN330M6.3V6.3X5F	NSRN	6.3	33	NA	NA	NACEN330M6.3V5X5.5TR13F	5X5.5
NSRN470M6.3V6.3X5F	NSRN	6.3	47	NA	NA	NACEN470M6.3V6.3X5.5TR13F	6.3X5.5
NSRN330M10V6.3X5F	NSRN	10	33	NA	NA	NACEN330M10V6.3X5.5TR13F	6.3X5.5
NSRN470M10V6.3X5F	NSRN	10	47	NA	NA	NA	N/A
NSRN220M16V6.3X5F	NSRN	16	22	NA	NA	NACEN220M16V6.3X5.5TR13F	6.3X5.5
NSRN330M16V6.3X5F	NSRN	16	33	NA	NA	NACEN330M16V6.3X5.5TR13F	6.3X5.5
NSRN100M25V6.3X5F	NSRN	25	10	NA	NA	NACEN100M25V6.3X5.5TR13F	6.3X5.5
NSRN100M35V6.3X5F	NSRN	35	10	NA	NA	NACEN100M35V6.3X5.5TR13F	6.3X5.5
NSRN4R7M50V6.3X5F	NSRN	50	4.7	NA	NA	NACEN4R7M50V6.3X5.5TR13F	6.3X5.5
NSRW101M6.3V6.3X5F	NSRW	6.3	100	NA	NA	NACEW101M6.3V6.3X5.5TR13F	6.3X5.5
NSRW470M10V6.3X5F	NSRW	10	47	NA	NA	NACEW470M10V6.3X5.5TR13F	6.3X5.5
NSRW330M16V6.3X5F	NSRW	16	33	NA	NA	NACEW330M16V6.3X5.5TR13F	6.3X5.5
NSRW470M16V6.3X5F	NSRW	16	47	NA	NA	NACEW470M16V6.3X5.5TR13F	6.3X5.5
NSRW220M25V6.3X5F	NSRW	25	22	NA	NA	NACEW220M25V6.3X5.5TR13F	6.3X5.5
NSRW330M25V6.3X5F	NSRW	25	33	NA	NA	NACEW330M25V6.3X5.5TR13F	6.3X5.5
NSRW220M35V6.3X5F	NSRW	35	22	NA	NA	NACEW220M35V6.3X5.5TR13F	6.3X5.5
NSRW100M50V6.3X5F	NSRW	50	10	NA	NA	NACEW100M50V6.3X5.5TR13F	6.3X5.5
NSRZ101M6.3V6.3X5F	NSRZ	6.3	100	NA	NA	NACX101M6.3V6.3X5.5TR13F	6.3X5.5
NSRZ181M6.3V6.3X5F	NSRZ	6.3	180	NA	NA	NACX221M6.3V6.3X5.5TR13F	6.3X5.5
NSRZ680M10V6.3X5F	NSRZ	10	68	NA	NA	NACZ680M10V6.3X6.3TR13F	6.3X6.3
NSRZ121M10V6.3X5F	NSRZ	10	120	NA	NA	NACZ121M10V6.3X6.3TR13F	6.3X6.3
NSRZ470M16V6.3X5F	NSRZ	16	47	NA	NA	NACX470M16V6.3X5.5TR13F	6.3X5.5
NSRZ680M16V6.3X5F	NSRZ	16	68	NA	NA	NACK680M16V6.3X6.1TR13F	6.3X6.1
NSRZ121M16V6.3X5F	NSRZ	16	120	NA	NA	NSPE-T121M16V6.3X8NBF	6.3X8
NSRZ330M25V6.3X5F	NSRZ	25	33	NA	NA	NACX330M25V6.3X5.5TR13F	6.3X5.5
NSRZ470M25V6.3X5F	NSRZ	25	47	NA	NA	NACX470M25V6.3X5.5TR13F	6.3X5.5
NSRZ330M35V6.3X5F	NSRZ	35	33	NA	NA	NACK330M35V6.3X6.1TR13F	6.3X6.1

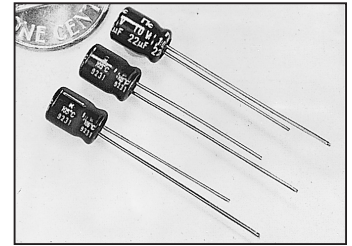
LOW PROFILE, SUB-MINIATURE, RADIAL LEADS,
NON-POLAR ALUMINUM ELECTROLYTIC

FEATURES

- BI-POLAR
- 5mm HEIGHT / LOW PROFILE

CHARACTERISTICS

Rated Voltage Range	6.3 ~ 50Vdc						
Capacitance Range	4.7 ~ 47 μ F						
Operating Temperature Range	-40 ~ +85°C						
Capacitance Tolerance	$\pm 20\%$ (M)						
Max. Leakage Current After 1 minutes At +20°C	0.03CV +6 μ A						
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	0.22	0.20	0.20	0.20	0.18
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 (Polarity Shall Be Reversed Every 250 Hours)	Capacitance Change	Within $\pm 25\%$ of initial measured value					
	Tan δ	Less than 200% of specified maximum value					
	Leakage Current	Less than specified maximum value					



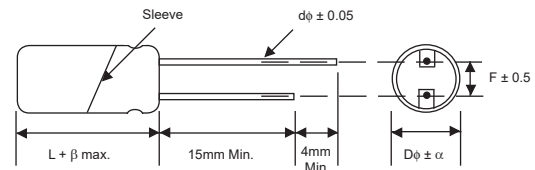
STANDARD PRODUCT AND CASE SIZE TABLE D ϕ x L (mm)

Cap. (μ F)	Code	Working Voltage (Vdc)					
		6.3	10	16	25	35	50
4.7	4R7	-	-	-	-	-	6.3x5
10	100	-	-	-	6.3x5	6.3x5	-
22	220	-	6.3x5	6.3x5	-	-	-
33	330	6.3x5	6.3x5	6.3x5	-	-	-
47	470	6.3x5	-	-	-	-	-

LEAD SPACING AND DIAMETER (mm)

Case Dia. (D ϕ)	4	5	6.3
Lead Dia. (d ϕ)	0.45	0.45	0.45
Lead Space (F)	1.5	2.0	2.5

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.

PART NUMBER SYSTEM

NSRN 100 M 35V 6.3X5 TB F

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

*see taping specifications for details

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
NSRN330M6.3V6.3x5F	33	6.3	0.24	37	12.1	1,000
NSRN470M6.3V6.3x5F	47		0.24	45	8.47	1,000
NSRN330M10V6.3x5F	33	10	0.22	33	15.1	1,000
NSRN470M10V6.3x5F	47		0.22	41	10.1	1,000
NSRN220M16V6.3x5F	22	16	0.20	37	12.8	1,000
NSRN330M16V6.3x5F	33		0.20	49	8.05	1,000
NSRN100M25V6.3x5F	10	25	0.20	27	28.2	1,000
NSRN100M35V6.3x5F	10	35	0.20	29	24.9	1,000
NSRN4R7M50V6.3x5F	4.7	50	0.18	20	53.0	1,000