



www.niccomp.com/pcn | Technical Support: tpmg@niccomp.com

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

➔ Follow NIC PCN alerts to get email notifications of EOL and PCN announcements at www.niccomp.com/pcn

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/qb_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



NIC Components Corp.

www.niccomp.com/pcn | Technical Support: tomg@niccomp.com

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

Miniature Aluminum Electrolytic Capacitors

NSRW Series

SUPER LOW PROFILE, WIDE TEMPERATURE,
RADIAL LEADS, POLARIZED

FEATURES

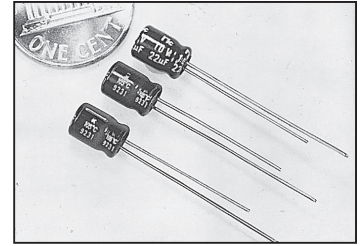
- 5mm MAX. HEIGHT
- EXTENDED TEMPERATURE -55 TO +105°C

CHARACTERISTICS

Rated Voltage Range	6.3 ~ 50VDC						
Capacitance Range	10 ~ 100 μ F						
Operating Temperature Range	-55°C ~ +105°C						
Capacitance Tolerance	$\pm 20\%$ (M)						
Maximum Leakage Current After 2 minutes	0.01CV or 3 μ A whichever is greater						
Max. Tan δ at 120Hz/20°C	W.V. (Vdc)	6.3	10	16	25	35	50
	S.V. (Vdc)	8	13	20	32	44	63
	Tan δ	0.26	0.22	0.16	0.14	0.12	0.10
Low Temperature Stability Impedance Ratio @ 120Hz	Z-40°C/Z+20°C	4	3	2	2	2	2
	Z-55°C/Z+20°C	6	5	4	3	3	3
Load Life Test @ 105°C 1,000 hours	Δ Capacitance	Within $\pm 25\%$ of initial measured value					
	Δ Tan δ	Less than 200% of specified value					
	Δ LC	Less than specified value					

**RoHS
Compliant**
includes all homogeneous materials

*See Part Number System for Details



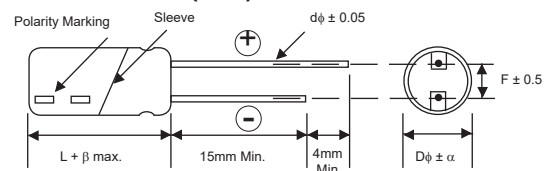
STANDARD PRODUCT AND CASE SIZE TABLE D ϕ xL (mm)

Cap. (μ F)	Code	Working Voltage (Vdc)					
		6.3	10	16	25	35	50
10	100	-	-	-	-	-	6.3x5
22	220	-	-	-	-	6.3x5	-
33	330	-	-	6.3x5	6.3x5	-	-
47	470	-	6.3x5	6.3x5	-	-	-
100	101	6.3x5	-	-	-	-	-

LEAD SPACING AND DIAMETER (mm)

Case Dia. (D ϕ)	6.3
Lead Dia. (d ϕ)	0.45
Lead Spacing (F)	2.5
Dim. α	0.5
Dim. β	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.

PART NUMBER SYSTEM

NSRW 470 M 16V 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 xL)

TB = Tape & Box*

RoHS Compliant

*see tape specification 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 VALUES, SPECIFICATIONS AND CASE SIZES (mm)

Part Number	Cap. (μ F)	W.V. (Vdc)	Dissipation Factor +20°C/120Hz	Ripple Current Rating (mA) +105°C/100KHz	Max. ESR (Ω) +20°C/100KHz	Load Life Hours @+105°C
NSRW101M6.3V6.3x5F	100	6.3	0.26	50	4.4	1,000
NSRW470M10V6.3x5F	47	10	0.22	41	7.8	1,000
NSRW330M16V6.3x5F	33	16	0.16	40	8.1	1,000
NSRW470M16V6.3x5F	47		0.16	48	5.7	1,000
NSRW220M25V6.3x5F	22	25	0.14	36	10.6	1,000
NSRW330M25V6.3x5F	33		0.14	44	7.1	1,000
NSRW220M35V6.3x5F	22	35	0.12	38	9.1	1,000
NSRW100M50V6.3x5F	10	50	0.10	24	16.6	1,000

RIPPLE CURRENT FREQUENCY CORRECTION FACTORS

Capacitance (μ F)	Frequency			
	100Hz $\leq$ F < 1KHz	1KHz $\leq$ F < 10KHz	10KHz $\leq$ F < 100KHz	100KHz $\leq$ F
C $\leq$ 4.7	0.50	0.65	0.95	1.00
4.7 < C $\leq$ 33	0.60	0.75	0.95	1.00
33 < C	0.75	0.85	0.95	1.00