

# Miniature Aluminum Electrolytic Capacitors

NSRZ Series

LOW IMPEDANCE, SUBMINIATURE, RADIAL LEADS, POLARIZED ALUMINUM ELECTROLYTIC CAPACITORS

## FEATURES

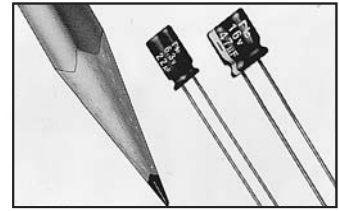
- VERY LOW IMPEDANCE AT HIGH FREQ AND HIGH RIPPLE CURRENT
- 5mm HEIGHT, LOW PROFILE
- SUITABLE FOR DC-DC CONVERTER OR DC-AC INVERTER

## CHARACTERISTICS

Rated Voltage Range	6.3 ~ 35Vdc					
Capacitance Range	0.47 ~ 180 $\mu$ F					
Operating Temperature Range	-55 ~ +105°C					
Capacitance Tolerance	$\pm$ 20%(M)					
Max. Leakage Current After 1 minutes At +20°C	0.01CV or 3 $\mu$ A, whichever is greater					
Max. Tan $\delta$ @ 120Hz/+20°C	W.V. (Vdc)	6.3	10	16	25	35
	S.V. (Vdc)	8	13	20	32	44
	Tan $\delta$	0.24	0.20	0.16	0.14	0.12
Low Temperature Stability Impedance Ratio @ 120Hz	Z-40°C/Z+20°C	3	2	2	2	2
	Z-55°C/Z+20°C	5	4	4	3	3
Load Life Test at Rated W.V. +105°C 1,000 Hours	Capacitance Change	Within $\pm$ 25% of initial measured value				
	Tan $\delta$	Less than 200% of specified maximum value				
	Leakage Current	Less than specified maximum value				

**RoHS Compliant**  
includes all homogeneous materials

\*See Part Number System for Details

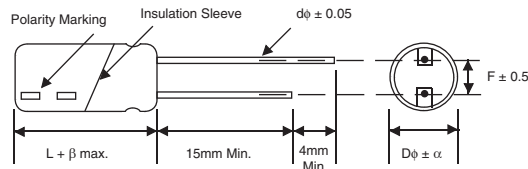


## STANDARD PRODUCTS, CASE SIZES AND SPECIFICATIONS D $\phi$ x L (mm)

Part Number	Cap ( $\mu$ F)	W.V (Vdc)	Max. Z ( $\Omega$ ) 100KHz & 20°C	Max. Ripple Current (mA) 100KHz & 105°C	Load Life Hours @ +105°C
NSRZ270M6.3V4x5F	27	6.3	1.80	80	1000
NSRZ560M6.3V5x5F	56		0.76	150	1000
NSRZ101M6.3V6.3x5F	100		0.44	230	1000
NSRZ181M6.3V6.3x5F	180		0.47	230	1000
NSRZ180M10V4x5F	18	10	1.80	80	1000
NSRZ330M10V5x5F	33		0.76	150	1000
NSRZ680M10V6.3x5F	68		0.44	230	1000
NSRZ121M10V6.3x5F	120		0.47	230	1000
NSRZ120M16V4x5F	12	16	1.80	80	1000
NSRZ220M16V5x5F	22		0.81	150	1000
NSRZ470M16V6.3x5F	47		0.44	230	1000
NSRZ680M16V6.3x5F	68		0.44	230	1000
NSRZ121M16V6.3x5F	120	25	0.47	230	1000
NSRZ8R2M25V4x5F	8.2		1.80	80	1000
NSRZ150M25V5x5F	15		0.81	150	1000
NSRZ220M25V5x5F	22		0.81	150	1000
NSRZ330M25V6.3x5F	33	35	0.44	230	1000
NSRZ470M25V6.3x5F	47		0.47	230	1000
NSRZ4R7M35V4x5F	4.7		1.80	80	1000
NSRZ8R2M35V4x5F	8.2		1.80	80	1000
NSRZ100M35V5x5F	10	35	0.81	150	1000
NSRZ150M35V5x5F	15		0.81	150	1000
NSRZ220M35V5x5F	22		0.81	150	1000
NSRZ330M35V6.3x5F	33		0.44	230	1000

## LEAD SPACING AND DIAMETER (mm)

Case Dia. (D $\phi$ )	4	5	6.3
Lead Dia. (d $\phi$ )	0.45	0.45	0.45
Lead Spacing (F)	1.5	2.0	2.5
Dim. $\alpha$	0.5	0.5	0.5
Dim. $\beta$	1.0	1.0	1.0



## 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](http://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](mailto:tpmg@niccomp.com)