

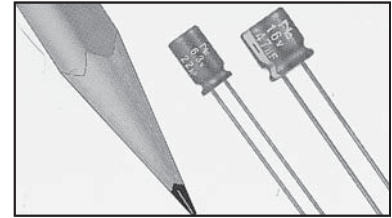
LOW IMPEDANCE, SUBMINIATURE, RADIAL LEADS,  
POLARIZED ALUMINUM ELECTROLYTIC CAPACITORS

### FEATURES

- VERY LOW IMPEDANCE AT HIGH FREQUENCY
- LOW PROFILE 7mm HEIGHT
- WIDE TEMPERATURE, -55°C~ +105°C

**RoHS Compliant**  
includes all homogeneous materials

\*See Part Number System for Details



### CHARACTERISTICS

Rated Voltage Range	6.3 ~ 35Vdc					
Capacitance Range	0.47 ~ 330μF					
Operating Temperature Range	-55 ~ +105°C					
Capacitance Tolerance	±20%(M)					
Max. Leakage Current After 1 minutes At +20°C	0.01CV or 3μA, whichever is greater					
Max. Tan δ @ 120Hz/+20°C	W.V. (Vdc)	6.3	10	16	25	35
	S.V. (Vdc)	8	13	20	32	44
	Tan δ	0.24	0.20	0.18	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 ±25% of initial measured value				
	Tan δ	Less than 200% of specified maximum value				
	Leakage Current	Less than specified maximum value				

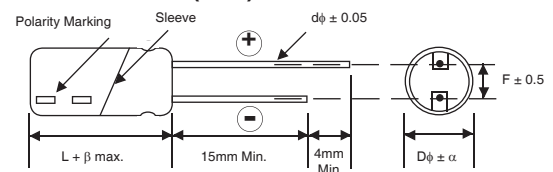
### STANDARD PRODUCT AND CASE SIZE TABLE Dφ x L (mm)

Cap. (μF)	Code	Working Voltage (Vdc)				
		6.3	10	16	25	35
4.7	4R7	-	-	-	-	4x7
10	100	-	-	-	4x7	5x7
15	150	-	-	4x7	5x7	6.3x7
22	220	-	4x7	5x7	5x7	6.3x7
33	330	-	5x7	-	6.3x7	6.3x7
47	470	5x7	5x7	6.3x7	6.3x7	6.3x7
68	680	-	-	-	6.3x7	-
100	101	-	6.3x7	6.3x7	6.3x7	-
150	151	-	6.3x7	6.3x7	-	-
220	221	6.3x7	6.3x7	6.3x7	-	-
330	331	6.3x7	-	-	-	-

### LEAD SPACING AND DIAMETER (mm)

Case Dia. (Dφ)	4	5	6.3
Lead Dia. (dφ)	0.45	0.45	0.45
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](http://www.niccomp.com/precautions)

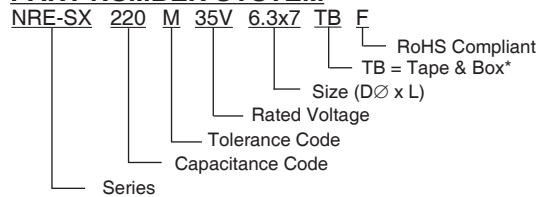
If in doubt or uncertainty, please review your specific application - process details with NIC's technical support personnel: [tpmg@niccomp.com](mailto:tpmg@niccomp.com)



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

Part Number	Cap. ( $\mu$ F)	W.V. (Vdc)	Max. Tan $\delta$	Max. Impedance 100KHz/20°C	Max. Ripple Current at 100KHz/105°C (mA rms)	Load Life Hours @ +105°C
NRE-SX470M6.3V5 x 7F	47	6.3	0.24	0.49	0.49	1000
NRE-SX221M6.3V6.3 x 7F	220		0.24	0.24	0.24	1000
NRE-SX331M6.3V6.3 x 7F	330		0.24	0.29	0.29	1000
NRE-SX220M10V4 x 7F	22	10	0.20	1.15	90	1000
NRE-SX330M10V5 x 7F	33		0.20	0.49	160	1000
NRE-SX470M10V5 x 7F	47		0.20	0.49	160	1000
NRE-SX101M10V6.3 x 7F	100		0.20	0.24	280	1000
NRE-SX151M10V6.3 x 7F	150		0.20	0.24	280	1000
NRE-SX221M10V6.3 x 7F	220		0.20	0.29	280	1000
NRE-SX150M16V4 x 7F	15		16	0.18	1.15	90
NRE-SX220M16V5 x 7F	22	0.18		0.49	160	1000
NRE-SX470M16V6.3 x 7F	47	0.18		0.24	280	1000
NRE-SX101M16V6.3 x 7F	100	0.18		0.24	280	1000
NRE-SX151M16V6.3 x 7F	150	0.18		0.29	280	1000
NRE-SX221M16V6.3 x 7F	220	0.18		0.29	280	1000
NRE-SX100M25V4 x 7F	10	25		0.14	1.15	90
NRE-SX150M25V5 x 7F	15		0.14	0.49	160	1000
NRE-SX220M25V5 x 7F	22		0.14	0.49	160	1000
NRE-SX330M25V6.3 x 7F	33		0.14	0.24	280	1000
NRE-SX470M25V6.3 x 7F	47		0.14	0.24	280	1000
NRE-SX680M25V6.3 x 7F	68		0.14	0.24	280	1000
NRE-SX101M25V6.3 x 7F	100		0.14	0.24	280	1000
NRE-SX4R7M35V4 x 7F	4.7	35	0.12	1.15	90	1000
NRE-SX100M35V5 x 7F	10		0.12	0.49	160	1000
NRE-SX150M35V6.3 x 7F	15		0.12	0.29	280	1000
NRE-SX220M35V6.3 x 7F	22		0.12	0.29	280	1000
NRE-SX330M35V6.3 x 7F	33		0.12	0.29	280	1000
NRE-SX470M35V6.3 x 7F	47		0.12	0.29	280	1000

### PART NUMBER SYSTEM



\*see tape specification for details



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