

Miniature Aluminum Electrolytic Capacitors

NRSJ Series

ULTRA LOW IMPEDANCE AT HIGH FREQUENCY, RADIAL LEADS

FEATURES

- VERY LOW IMPEDANCE
- LONG LIFE AT 105°C (2000 hrs.)
- HIGH STABILITY AT LOW TEMPERATURE

**RoHS
Compliant**

includes all homogeneous materials

*See Part Number System for Details



CHARACTERISTICS

Rated Voltage Range	6.3 ~ 50Vdc						
Capacitance Range	100 ~ 2,700 μ F						
Operating Temperature Range	-25° ~ +105°C						
Capacitance Tolerance	\pm 20% (M)						
Maximum Leakage Current After 2 Minutes at 20°C	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
	C < 1,500 μ F	0.22	0.19	0.16	0.14	0.12	0.10
	C = 2,200 μ F ~ 2,700 μ F	0.24	0.21	0.18	0.16	-	-
Low Temperature Stability Impedance Ratio @ 120Hz	Z-25°C/Z+20°C	3	3	3	3	3	3
Load Life Test at Rated W.V. 105°C 2,000 Hrs.	Capacitance Change	Within \pm 25% of initial measured value					
	Tan δ	Less than 200% of specified value					
	Leakage Current	Less than specified value					

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

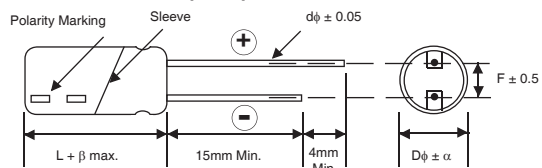
Cap (μ F)	Code	Working Voltage (Vdc)					
		6.3	10	16	25	35	
220	221	-	-	-	-	-	10x12.5
330	331	-	-	-	-	10x12.5	10x16
390	391	-	-	-	-	-	8x20
470	471	-	-	10x12.5	10x16	10x20	10x20
680	681	-	10x12.5	10x16	10x20	-	-
1000	102	10x12.5	10x16	10x16	10x20	-	-
				10x20			
1500	152	10x16	10x20	10x20	-	-	-
2200	222	10x20	-	-	-	-	-

DIAMETER AND LEADSPACE (mm)

Case Dia. (D ϕ)	8	10
Lead Dia. (d ϕ)	0.6	0.6
Lead Spacing (F)	3.5	5.0
Dim. α	0.5	0.5

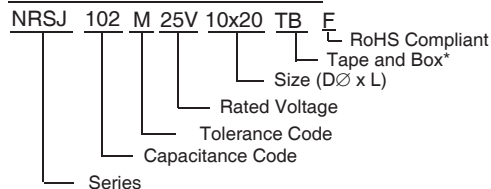
$\beta = L \leq 16\text{mm} = 1.5\text{mm}, L \geq 20\text{mm} = 2.0\text{mm}$

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



*see tape specification for details

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 PRODUCTS, CASE SIZES AND SPECIFICATIONS D ϕ x L (mm)

Part Number	Cap (μ F)	W.V (Vdc)	Max. Tan δ	Max. Z (Ω) 100KHz & 20°C	Max. Ripple Current (mA) 100KHz & 105°C	Load Life Hours @ +105°C
NRSJ102M6.3V10X12.5F	1000	6.3	0.22	0.025	1540	2000
NRSJ152M6.3V10X16F	1500		0.22	0.018	2000	2000
NRSJ222M6.3V10X20F	2200		0.24	0.013	2550	2000
NRSJ681M10V10X12.5F	680	10	0.19	0.025	1540	2000
NRSJ102M10V10X16F	1000		0.19	0.018	2000	2000
NRSJ152M10V10X20F	1500		0.19	0.013	2550	2000
NRSJ471M16V10X12.5F	470	16	0.16	0.025	1540	2000
NRSJ681M16V10X16F	680		0.16	0.018	2000	2000
NRSJ102M16V10X16F	1000		0.16	0.018	2000	2000
NRSJ102M16V10X20F	1000		0.16	0.013	2550	2000
NRSJ152M16V10X20F	1500		0.16	0.013	2550	2000
NRSJ331M25V10X12.5F	330		25	0.14	0.025	1440
NRSJ471M25V10X16F	470	0.14		0.020	1920	2000
NRSJ681M25V10X20F	680	0.14		0.016	2180	2000
NRSJ102M25V10X20F	1000	0.14		0.018	2060	2000
NRSJ221M35V10X12.5F	220	35		0.12	0.025	1440
NRSJ331M35V10X16F	330		0.12	0.020	1920	2000
NRSJ391M35V8X20F	390		0.12	0.020	1720	2000
NRSJ471M35V10X20F	470		0.12	0.016	2180	2000