

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					

MAXIMUM IMPEDANCE (Ω AT 100KHz/20°C)

Cap (μ F)	Working Voltage (Vdc)					
	6.3	10	16	25	35	50
100	-	-	-	-	-	0.046
121	-	-	-	-	-	0.049
150	-	-	-	-	0.030	0.036
180	-	-	-	-	-	0.039
220	-	-	-	0.030	0.032	0.023
					0.025	0.026
270	-	-	-	-	0.025	
					0.029	
					0.021	
330	-	-	0.030	0.032	0.018	
				0.025	0.027	
				-	0.020	
390	-	-	-	0.020	-	
				0.022		
470	-	0.030	0.032	0.018	-	
			0.025	0.027		
			-	0.020		
560	0.030	-	-	-	0.018	-
680	-	0.032	0.016	0.020	-	-
		0.025	0.025	0.022		
		-	0.018	0.016		
1000	0.030	0.016	0.016	0.018	-	-
	0.025	0.025	0.018			
	-	0.018	0.013			
1500	0.016	0.016	0.013	-	-	-
	0.025	0.018				
	0.018	0.013				
2200	0.016	0.013	-	-	-	-
	0.018					
	0.013					
2700	0.013	-	-	-	-	-

MAXIMUM RIPPLE CURRENT (mA AT 100KHz/105°C)

Cap (μ F)	Working Voltage (Vdc)					
	6.3	10	16	25	35	50
100	-	-	-	-	-	920
121	-	-	-	-	-	890
150	-	-	-	-	1110	1230
180	-	-	-	-	-	1180
220	-	-	-	1110	1080	1680
					1440	1720
270	-	-	-	-	-	1610
					1630	
					1980	
330	-	-	1140	1080	1820	1800
				140	1390	
				-	1920	
390	-	-	-	-	1720	-
				1830		
470	-	1140	1140	1820	2180	-
			1540	1390		
			-	1920		
560	1140	-	-	-	2060	-
680	-	1140	1870	1720	-	-
		1540	1540	1830		
		-	2000	2180		
1000	-	1140	1870	1870	2060	-
		1540	1540	2000		
		-	2000	2550		
1500	-	1870	1870	2550	-	-
		1540	2000			
		2000	2550			
2200	-	1870	2550	-	-	-
		2000				
		2550				
2700	2550	-	-	-	-	-

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



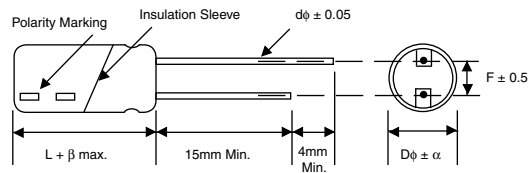
STANDARD PRODUCT AND CASE SIZE TABLE D ϕ x L (mm)

Cap (μ F)	Code	Working Voltage (Vdc)					
		6.3	10	16	25	35	50
100	101	-	-	-	-	-	8x11.5
121	121	-	-	-	-	-	8x11.5
150	151	-	-	-	-	8x11.5	10x12.5
180	181	-	-	-	-	-	10x12.5
220	22	-	-	-	8x11.5	8x11.5	8x20
						10x12.5	10x16
270	271	-	-	-	-	-	8x20
						-	10x16
						-	10x20
330	331	-	-	8x11.5	8x11.5	8x20	10x20
					10x12.5	10x12.5	
					-	10x16	
390	291	-	-	-	-	8x20	-
						10x16	-
470	471	-	8x11.5	8x11.5	8x20	10x20	-
				10x12.5	10x12.5		
				-	10x16		
560	561	8x11.5	-	-	-	10x20	-
680	681	-	8x11.5	8x20	8x20	-	-
			10x12.5	10x12.5	10x16		
			-	10x16	10x20		
1000	102	8x11.5	8x20	8x20	10x20	-	-
		10x12.5	10x12.5	10x16			
		-	10x16	10x20			
1500	152	8x20	8x20	10x20	-	-	-
		10x12.5	10x16				
		10x16	10x20				
2200	222	8x20	10x20	-	-	-	-
		10x16					
		10x20					
2700	272	10x20	-	-	-	-	-

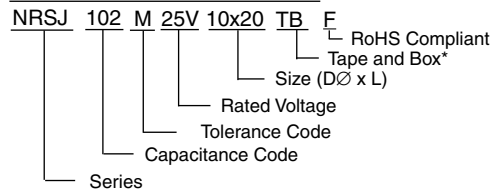
DIAMETER AND LEADSPACE (mm)

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

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



PART NUMBER SYSTEM



*see tape specification for details