

HIGH TEMPERATURE, EXTENDED LOAD LIFE, RADIAL LEADS, POLARIZED

FEATURES

- IMPROVED ENDURANCE AT HIGH TEMPERATURE (up to 12,000HRS @ 105°C)
- IDEAL FOR HIGH VOLTAGE LIGHTING BALLAST

RoHS Compliant
includes all homogeneous materials

*See Part Number System for Details



CHARACTERISTICS

Rated Voltage Range		160 ~ 450VDC					
Capacitance Range		6.8 ~ 220μF					
Operating Temperature Range		-25°C ~ +105°C					
Capacitance Tolerance		±20% (M)					
Maximum Leakage Current @ 20°C	After 1 min.	0.04CV + 100μA					
	After 5 min.	0.02CV + 25μA					
Max. Tan δ	W.V. (Vdc)	160	200	250	350	400	450
	@120Hz/20°C	0.15	0.15	0.15	0.20	0.20	0.20
Low Temperature Stability Impedance Ratio @ 120Hz	Z-25°C/Z+20°C	3	3	3	6	6	6
	Duration	φ D = 10mm: 10,000 hours, φ D = 12.5≥: 12,000 hours					
Load Life Test at Rated Voltage @ 105°C	Δ Capacitance	Within ±20% of initial measured value					
	Δ Tan δ	Less than 200% of specified value					
	Δ LC	Less than specified value					

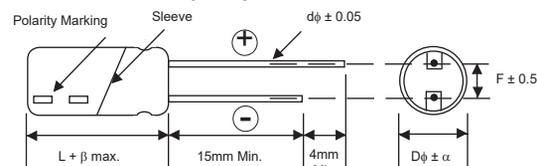
STANDARD PRODUCT AND CASE SIZE TABLE DφxL (mm)

Capacitance (μF)	Code	Working Voltage (Vdc)					
		160	200	250	350	400	450
6.8	6R8	-	-	-	10x16	10x16	10x20
10	100	10x16	10x16	10x20	10x20	10x20	12.5x20
22	220	10x20	10x20	12.5x20	12.5x20	12.5x25	16x25
						16x20	18x20
33	330	10x20	12.5x20	12.5x20	16x20	16x25	16x31.5
						18x20	18x25
47	470	12.5x20	12.5x20	12.5x25	16x25	16x31.5	18x31.5
				16x20	18x20	18x25	
68	680	12.5x25	12.5x25	16x25	16x31.5	18x31.5	-
		16x20	16x20	18x20	18x25		
100	101	16x25	16x25	16x31.5	-	-	-
		18x20	18x20	18x25	-	-	-
150	151	16x31.5	16x31.5	18x31.5	-	-	-
		18x25	18x25		-	-	-
220	221	16x31.5	18x31.5	-	-	-	-
		18x25		-	-	-	-

LEAD SPACING AND DIAMETER (mm)

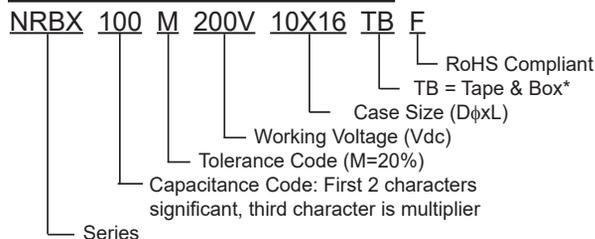
Case Dia. (Dφ)	10	12.5	16	18
Lead Dia. (dφ)	0.6	0.6	0.8	0.8
Lead Spacing (F)	5.0	5.0	7.5	7.5
Dim. α	0.5			
Dim. β	2.0			

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



*see taping specifications 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. (μF)	W.V. (Vdc)	Dissipation Factor +20°C/120Hz	Ripple Current Rating (mA) +105°C/100KHz	Max. ESR (Ω) +20°C/120Hz	Load Life Hours @+105°C	
NRBX100M160V10x16F	10	160	0.15	250	24.88	10,000	
NRBX220M160V10x20F	22		0.15	500	11.31	10,000	
NRBX330M160V10x20F	33		0.15	500	7.54	10,000	
NRBX470M160V12.5x20F	47		0.15	660	5.29	12,000	
NRBX680M160V12.5x25F	68		0.15	760	3.66	12,000	
NRBX680M160V16x20F			0.15				
NRBX101M160V16x25F	100		0.15	1120	2.49	12,000	
NRBX101M160V18x20F			0.15				
NRBX151M160V16x31.5F	150		0.15	1360	1.66	12,000	
NRBX151M160V18x25F			0.15				
NRBX221M160V16x31.5F	220		0.15	1400	1.13	12,000	
NRBX221M160V18x25F			0.15				
NRBX100M200V10x16F	10	200	0.15	250	24.88	10,000	
NRBX220M200V10x20F	22		0.15	500	11.31	10,000	
NRBX330M200V12.5x20F	33		0.15	600	7.54	12,000	
NRBX470M200V12.5x20F	47		0.15	660	5.29	12,000	
NRBX680M200V12.5x25F	68		0.15	760	3.66	12,000	
NRBX680M200V16x20F			0.15				
NRBX101M200V16x25F	100		0.15	1120	2.49	12,000	
NRBX101M200V18x20F			0.15				
NRBX151M200V16x31.5F	150		0.15	1360	1.66	12,000	
NRBX151M200V18x25F			0.15				
NRBX221M200V18x31.5F	220		0.15	1700	1.13	12,000	
NRBX100M250V10x20F	10		250	0.15	280	24.88	10,000
NRBX220M250V12.5x20F	22	0.15		600	11.31	12,000	
NRBX330M250V12.5x20F	33	0.15		600	7.54	12,000	
NRBX470M250V12.5x25F	47	0.15		720	5.29	12,000	
NRBX470M250V16x20F		0.15					
NRBX680M250V16x25F	68	0.15		920	3.66	12,000	
NRBX680M250V18x20F		0.15					
NRBX101M250V16x31.5F	100	0.15		1200	2.49	12,000	
NRBX101M250V18x25F		0.15					
NRBX151M250V18x31.5F	150	0.15		1500	1.66	12,000	
NRBX6R8M350V10x16F	6.8	350		0.20	220	48.79	10,000
NRBX100M350V10x20F	10			0.20	280	33.17	10,000
NRBX220M350V12.5x20F	22		0.20	350	15.08	12,000	
NRBX330M350V16x20F	33		0.20	500	10.05	12,000	
NRBX470M350V16x25F	47		0.20	660	7.06	12,000	
NRBX680M350V16x31.5F	68		0.20	850	4.88	12,000	
NRBX680M350V18x25F			0.20				
NRBX6R8M400V10x16F	6.8		0.20	220	48.79	10,000	
NRBX100M400V10x20F	10		0.20	280	33.17	10,000	
NRBX220M400V12.5x25F	22		0.20	430	15.08	12,000	
NRBX220M400V16x20F			0.20				
NRBX330M400V16x25F	33		0.20	640	10.05	12,000	
NRBX330M400V18x20F		0.20					
NRBX470M400V16x31.5F	47	0.20	840	7.06	12,000		
NRBX470M400V18x25F		0.20					
NRBX680M400V18x31.5F	68	0.20	1000	4.88	12,000		
NRBX6R8M450V10x20F	6.8	450	0.20	150	48.79	10,000	
NRBX100M450V12.5x20F	10		0.20	320	33.17	12,000	
NRBX220M450V16x25F	22		0.20	560	15.08	12,000	
NRBX220M450V18x20F			0.20				
NRBX330M450V16x31.5F	33		0.20	700	10.05	12,000	
NRBX330M450V18x25F			0.20				
NRBX470M450V18x31.5F	47		0.20	880	7.06	12,000	

RIPPLE CURRENT FREQUENCY CORRECTION FACTOR

Frequency (Hz)	120	1K	10K	100K
Multiplier	0.50	0.80	0.90	1.00

