

NRGB Series

Radial Leaded Aluminum Electrolytic Capacitors



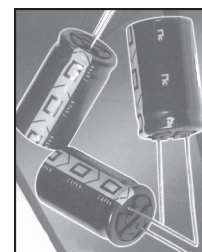
HIGH TEMPERATURE, EXTENDED LOAD LIFE, RADIAL LEADS, POLARIZED

FEATURES

- IMPROVED ENDURANCE AT HIGH TEMPERATURE (up to 10,000HRS @ 105°C)
- IDEAL FOR LOW VOLTAGE LIGHTING BALLAST
- AEC-Q200 SUPPORT AVAILABLE

CHARACTERISTICS

Rated Voltage Range		10 ~ 100VDC						
Capacitance Range		1.0 ~ 330μF						
Operating Temperature Range		-40°C ~ +105°C						
Capacitance Tolerance		±20% (M)						
Maximum Leakage Current @ 20°C	After 2 min.	0.01CV or 3μA whichever is greater						
Max. Tan δ	W.V. (Vdc)	10	16	25	35	50	63	100
	S.V. (Vdc)	13	20	32	44	63	79	125
	@120Hz/20°C	0.45	0.35	0.30	0.22	0.19	0.17	0.15
Low Temperature Stability Impedance Ratio @ 120Hz	Z-25°C/Z+20°C	8	6	4	4	3	3	3
Load Life Test at Rated Voltage @ 105°C	Duration	10,000 hours						
	Δ Capacitance	Within ±25% of initial measured value						
	Δ Tan δ	Less than 300% of specified value						
	Δ LC	Less than specified value						



STANDARD PRODUCT AND CASE SIZE TABLE DφxL (mm)

Cap. (μF)	Code	Working Voltage (Vdc)					
		10	16	25	35	50	100
1.0	1R0	-	-	-	-	5x11	-
2.2	2R2	-	-	-	-	5x11	-
3.3	3R3	-	-	-	-	5x11	-
4.7	4R7	-	-	-	-	5x11	-
10	100	-	-	-	-	5x11	6.3x11
22	220	-	-	-	-	5x11	6.3x11
33	330	-	-	5x11	5x11	6.3x11	6.3x11
47	470	-	5x11	5x11	6.3x11	6.3x11	8x11.5
100	101	5x11	6.3x11	6.3x11	8x11.5	8x11.5	-
220	221	6.3x11	8x11.5	-	-	-	-
330	331	8x11.5	-	-	-	-	-

PART NUMBER SYSTEM

NRGB 331 M 10V 8X11.5 TB Y F RoHS Compliant

Series Capacitance Code in μF Tolerance Code M=20% Working Voltage Case Size (mm) TB = Tape & Box*

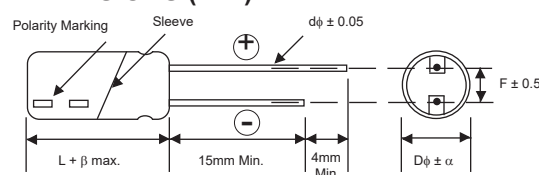
*see tape specification for details

Optional: AEC-Q200 support for automotive equipment, availability subject to application review. Sourced to special production and inspection at IATF-16949 certified production site.

LEAD SPACING AND DIAMETER (mm)

Case Dia. (Dφ)	5	6.3	8
Lead Dia. (dφ)	0.5	0.5	0.6
Lead Spacing (F)	2.0	2.5	3.5
Dim. α	0.5		
Dim. β	1.5		

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 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