

# Aluminum Electrolytic Capacitors

NRE-WX Series

ULTRA HIGH TEMPERATURE, RADIAL LEADS, POLARIZED ALUMINUM ELECTROLYTIC CAPACITORS

## FEATURES

- HIGH TEMPERATURE 150°C
- CAPACITANCE VALUES (UP TO 1,000μF)
- IDEAL FOR ELECTRONIC BALLAST & POWER SUPPLIES

**RoHS Compliant**  
includes all homogeneous materials

\*See Part Number System for Details



## CHARACTERISTICS

Rated Voltage Range		16 ~ 50Vdc				
Rated Capacitance Range		330 ~ 1,000μF				
Operating Temperature Range		-40°C ~ +150°C				
Capacitance Tolerance		±20% (M)				
Max. Leakage Current After 5 Minutes		0.01CV or 3μA whichever is greater				
Maximum Tanδ @120Hz/20°C		16	25	35	50	
		0.16	-	0.12	0.12	
Low Temperature Stability (Impedance Ratio @ 120Hz)		Z -25°C/+20°C	2	-	2	2
		Z -40°C/+20°C	4	-	4	4
Load Life @ 150°C 1,000 hours		Capacitance Change	Within ±30% of initial measured value			
		Tan δ	Less than 300% of specified value			
		Leakage Current	Less than the specified maximum value			

## RIPPLE CURRENT RATING (mA rms 100KHz AND 150°C)

Cap. μF	Working Voltage (Vdc)			
	16	25	35	50
330	-	-	-	500
470	-	-	750	-
1,000	750	-	-	-

## RIPPLE CURRENT FREQUENCY CORRECTION FACTOR (10VDC ~ 63VDC)

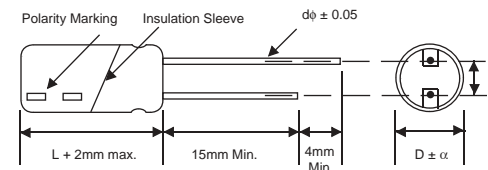
Capacitance Value	50Hz	120Hz	1KHz	10KHz	100KHz
330μF ~ 1000μF	0.40	0.50	0.80	0.95	1.00

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

Cap. μF	Cap. Code	Working Voltage (Vdc)			
		16	25	35	50
330	331	-	-	-	12.5 x 25
470	471	-	-	12.5 x 25	-
1,000	102	12.5 x 25	-	-	-

## LEAD SPACING AND DIAMETER (mm)

Case Dia. (Dφ)	12.5
Lead Space (F)	5.0
Lead Dia. (dφ)	0.6
Dim. α	1.0



## PART NUMBERING SYSTEM

**NREWX 331 M 50V 12.5X25 F**

- Series
- Cap. Code: First 2 characters significant  
Third character is multiplier
- Tolerance Code (M=20%)
- Working Voltage (Vdc)
- Case Size (Dφ x L)
- RoHS Compliant

## 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)

