

## FEATURES

- CYLINDRICAL V-CHIP CONSTRUCTION
- VERY LOW IMPEDANCE AT 100KHz
- WIDE TEMPERATURE RANGE (-55 +105°C)
- MAXIMUM 5.5mm HEIGHT
- ANTI-SOLVENT (2 MINUTES)
- DESIGNED FOR REFLOW SOLDERING

**RoHS  
Compliant**  
includes all homogeneous materials  
\*See Part Number System for Details



## CHARACTERISTICS

Rated Voltage Range		6.3 ~ 63V						
Rated Capacitance Range		0.47 ~ 150μF						
Operating Temperature Range		-55 ~ +105°C						
Capacitance Tolerance		±20% (M), ±10% (K)*						
Max. Leakage Current After 2 Minutes at 20°C		0.01CV or 3μA whichever is greater						
Surge Voltage and Max. Tan δ	W.V. (Vdc)	6.3	10	16	25	35	50	63
	S.V.(Vdc)	8	13	20	32	44	63	79
	Tan δ	0.24	0.20	0.16	0.14	0.12	0.12	0.12
Low Temperature Stability (Impedance Ratio @ 120Hz)	Z-25°C/Z+20°C	3	2	2	2	2	2	2
	Z-55°C/Z+20°C	5	4	4	3	3	3	3
High Temperature Load Life at 105°C and Rated Working Voltage 1,000 hours	Capacitance Change	Within ±25% of initial measured value						
	Tan δ	Less than 200% of specified value						
	Leakage Current	Less than the specified value						

\* Optional ± 10% (K) Tolerance available on most values. Contact factory for availability.

## MAXIMUM PERMISSIBLE RIPPLE CURRENT (mA rms AT 100KHz AND 105°C)

Cap. (μF)	Working Voltage (Vdc)							
	6.3	10	16	25	35	50	63	
0.47	-	-	-	-	51	30	15	
1.0	-	-	-	-	68	37	20	
2.2	-	-	-	-	68	45	24	
3.3	-	-	-	-	68	52	40	
4.7	-	-	-	68	68	75	40	
10	-	-	68	105	105	120	65	
22	68	105	105	155	155	-	-	
33	105	105	155	155	-	-	-	
47	105	155	155	155	-	-	-	
100	155	155	155	-	-	-	-	
220	155	-	-	-	-	-	-	

## MAXIMUM IMPEDANCE (Ω AT 100KHz AND 20°C)

Cap. (μF)	Working Voltage (Vdc)							
	6.3	10	16	25	35	50	63	
0.47	-	-	-	-	6.0	8.0	10	
1.0	-	-	-	-	3.1	7.4	8.0	
2.2	-	-	-	-	2.9	6.6	8.0	
3.3	-	-	-	-	2.7	5.4	3.5	
4.7	-	-	-	2.3	2.3	2.9	3.5	
10	-	-	2.3	1.1	1.1	1.3	1.6	
22	2.3	1.1	1.1	0.6	0.6	-	-	
33	1.1	1.1	0.6	0.6	-	-	-	
47	1.1	0.6	0.6	0.6	-	-	-	
100	0.6	0.6	0.6	-	-	-	-	
220	0.6	-	-	-	-	-	-	

## PRECAUTIONS

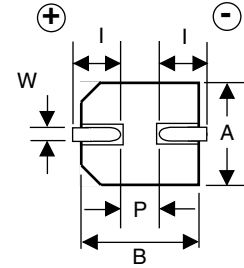
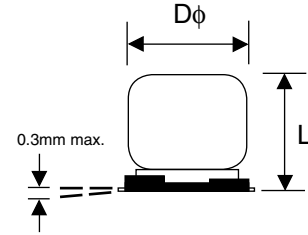
Please review the notes on correct use, safety and precautions found on pages T10 & T11 of NIC's Electrolytic Capacitor catalog.  
Also found at [www.niccomp.com/precautions](http://www.niccomp.com/precautions)  
If in doubt or uncertainty, please review your specific application - process details with NIC's technical support personnel: [tpmg@niccomp.com](mailto:tpmg@niccomp.com)



# Surface Mount Aluminum Electrolytic Capacitors NACX Series

## STANDARD PRODUCT AND SIZE DφxL (mm)

Cap. (μF)	Code	Working Voltage (Vdc)						
		6.3	10	16	25	35	50	63
0.47	R47	-	-	-	-	4x5.5	4x5.5	4x5.5
1.0	1R0	-	-	-	-	4x5.5	4x5.5	4x5.5
2.2	2R2	-	-	-	-	4x5.5	4x5.5	4x5.5
3.3	3R3	-	-	-	-	4x5.5	4x5.5	4x5.5
4.7	4R7	-	-	-	4x5.5	4x5.5	4x5.5	5x5.5
10	100	-	-	4x5.5	5x5.5	5x5.5	6.3x5.5	6.3x5.5
22	220	4x5.5	5x5.5	5x5.5	6.3x5.5	6.3x5.5	-	-
33	330	5x5.5	5x5.5	6.3x5.5	6.3x5.5	-	-	-
47	470	5x5.5	6.3x5.5	6.3x5.5	6.3x5.5	-	-	-
100	101	6.3x5.5	6.3x5.5	6.3x5.5	-	-	-	-
220	221	6.3x5.5	-	-	-	-	-	-



## DIMENSIONS (mm)

Case Size	Dφ±0.5	L max.	A/B±0.2	l ± 0.2	W	P±0.2
4x5.5	4.0	5.5	4.3	1.8	0.5 ~ 0.8	1.0
5x5.5	5.0	5.5	5.3	2.1	0.5 ~ 0.8	1.4
6.3x5.5	6.3	5.5	6.6	2.5	0.5 ~ 0.8	2.2

## PART NUMBER SYSTEM

