

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



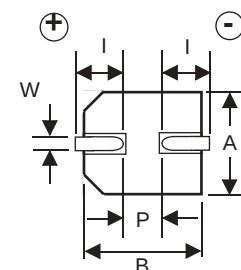
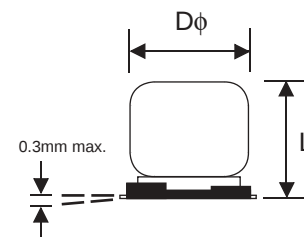
CHARACTERISTICS

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.

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	I ± 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

NACX 100 M 25V 5x5.5 TR 13 F

- NACX**: Series
- 100**: Capacitance Code in μF, first 2 digits are significant. Third digit is no. of zeros, "R" indicates decimal for values under 10μF.
- M**: Tolerance Code M=20%, K=10%
- 25V**: Working Voltage
- 5x5.5**: Size in mm
- TR**: Tape & Reel
- 13 F**: RoHS Compliant, 97% Sn (min.), 3% Bi (max.), 330mm (13") Reel

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

Surface Mount Aluminum Electrolytic Capacitors NACX Series

NIC Part Number	Cap. (μ F)	W.V. (Vdc)	Dissipation Factor (Tan δ)	Max. Ripple Current (mA) +105°C/100kHz	Max. Z (Ω) +20°C/100kHz	Load Life Hours @ +105°C
NACX220M6.3V4x5.5TR13F	22	6.3	0.24	68	2.3	1,000
NACX330M6.3V5x5.5TR13F	33		0.24	105	1.1	1,000
NACX470M6.3V5x5.5TR13F	47		0.24	105	1.1	1,000
NACX101M6.3V6.3x5.5TR13F	100		0.24	155	0.6	1,000
NACX221M6.3V6.3x5.5TR13F	220		0.24	155	0.6	1,000
NACX220M10V5x5.5TR13F	22	10	0.20	105	1.1	1,000
NACX330M10V5x5.5TR13F	33		0.20	105	1.1	1,000
NACX470M10V6.3x5.5TR13F	47		0.20	155	0.6	1,000
NACX101M10V6.3x5.5TR13F	100		0.20	155	0.6	1,000
NACX100M16V4x5.5TR13F	10	16	0.16	68	2.3	1,000
NACX220M16V5x5.5TR13F	22		0.16	105	1.1	1,000
NACX330M16V6.3x5.5TR13F	33		0.16	155	0.6	1,000
NACX470M16V6.3x5.5TR13F	47		0.16	155	0.6	1,000
NACX101M16V6.3x5.5TR13F	100		0.16	155	0.6	1,000
NACX4R7M25V4x5.5TR13F	4.7	25	0.14	68	2.3	1,000
NACX100M25V5x5.5TR13F	10		0.14	105	1.1	1,000
NACX220M25V6.3x5.5TR13F	22		0.14	155	0.6	1,000
NACX330M25V6.3x5.5TR13F	33		0.14	155	0.6	1,000
NACX470M25V6.3x5.5TR13F	47		0.14	155	0.6	1,000
NACXR47M35V4x5.5TR13F	0.47	35	0.12	51	6.0	1,000
NACX1R0M35V4x5.5TR13F	1.0		0.12	68	3.1	1,000
NACX2R2M35V4x5.5TR13F	2.2		0.12	68	2.9	1,000
NACX3R3M35V4x5.5TR13F	3.3		0.12	68	2.7	1,000
NACX4R7M35V4x5.5TR13F	4.7		0.12	68	2.3	1,000
NACX100M35V5x5.5TR13F	10	50	0.12	105	1.1	1,000
NACX220M35V6.3x5.5TR13F	22		0.12	155	0.6	1,000
NACXR47M50V4x5.5TR13F	0.47		0.12	30	8.0	1,000
NACX1R0M50V4x5.5TR13F	1.0		0.12	37	7.4	1,000
NACX2R2M50V4x5.5TR13F	2.2		0.12	45	6.6	1,000
NACX3R3M50V4x5.5TR13F	3.3	63	0.12	52	5.4	1,000
NACX4R7M50V4x5.5TR13F	4.7		0.12	75	2.9	1,000
NACX100M50V6.3x5.5TR13F	10		0.12	120	1.3	1,000
NACXR47M63V4x5.5TR13F	0.47		0.12	15	10	1,000
NACX1R0M63V4x5.5TR13F	1.0		0.12	20	8.0	1,000
NACX2R2M63V4x5.5TR13F	2.2	63	0.12	24	8.0	1,000
NACX3R3M63V4x5.5TR13F	3.3		0.12	40	3.5	1,000
NACX4R7M63V5x5.5TR13F	4.7		0.12	40	3.5	1,000
NACX100M63V6.3x5.5TR13F	10		0.12	65	1.6	1,000

Review & Compare Reflow Soldering Heat Limits
V-chip SMT Aluminum Electrolytic Capacitors
www.niccomp.com/RSL