

FEATURES

- CYLINDRICAL LEADLESS TYPE FOR SURFACE MOUNTING
- VERY LOW IMPEDANCE AT 100KHz
- WIDE TEMPERATURE RANGE (-55 +105°C)
- MAXIMUM 5.5mm HEIGHT
- ANTI-SOLVENT (2 MINUTES)
- DESIGNED FOR AUTOMATIC MOUNTING AND REFLOW SOLDERING

CHARACTERISTICS

Rated Voltage Range	6.3 ~ 50 Vdc						
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 & Max. Tanδ	W.V. (Vdc)	6.3	10	16	25	35	50
	S.V. (Vdc)	8.0	13	20	32	44	63
	Tand @ 120Hz/20°C	0.24	0.20	0.16	0.14	0.12	0.10
Low Temperature Stability (Impedance Ratio at 120Hz)	W.V. (Vdc)	6.3	10	16	25	35	50
	Z-40°C/Z +20°C	3	2	2	2	2	2
	Z-55°C/Z +20°C	5	4	4	3	3	3
Load Life Test 105°C 1,000 Hours	Capacitance Change	Within + 25% of initial measured value					
	Tanδ	Less than 200% of specified value					
	Leakage Current	Less than 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
0.47					45	30
1.0					60	37
2.2					60	45
3.3					60	52
4.7				60	60	75
10			60	95	95	120
22	60	95	95	140	140	
33	95	95	140	140		
47	95	140	140			
100	140	140	140			
150	140					

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

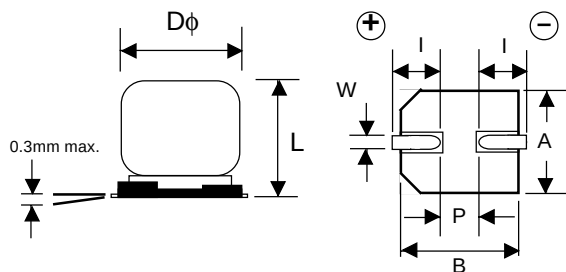
Cap (μF)	Working Voltage (Vdc)					
	6.3	10	16	25	35	50
0.47					6.5	8.0
1.0					3.6	7.4
2.2					3.6	6.6
3.3					3.6	5.4
4.7				3.6	3.6	2.9
10			3.6	1.5	1.5	1.3
22	3.6	1.5	1.5	0.8	0.8	
33	1.5	1.5	0.8	0.8		
47	1.5	0.8	0.8			
100	0.8	0.8	0.8			
150	0.7					

STANDARD PRODUCTION SIZE DØ xL

Cap (μ F)	Code	Working Voltage (Vdc)					
		6.3	10	16	25	35	50
0.47	R47					4x5.5	4x5.5
1.0	1R0					4x5.5	4x5.5
2.2	2R2					4x5.5	4x5.5
3.3	3R3					4x5.5	4x5.5
4.7	4R7				4x5.5	4x5.5	5x5.5
10	100			4x5.5	5x5.5	5x5.5	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			
100	101	6.3x5.5	6.3x5.5	6.3x5.5			
150	151	6.3x5.5					

DIMENSIONS (mm)

Case Size	DØ $\pm$ 0.5	L max.	A $\pm$ 0.2	I $\pm$ 0.2	W	P $\pm$ 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



SEE PAGE 38
For Case Size Data
SEE PAGE 39
For Taping/Packaging Data

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