



NIC COMPONENTS CORP.
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END OF LIFE NOTICE

PRODUCT: Surface Mount Aluminum Electrolytic Capacitors

NIC PRODUCT SERIES: NACT Series

THE FOLLOWING IS NOTICE THAT THE **NACT SERIES** IS BEING **DISCONTINUED**.

LAST ORDER DATE: JUNE 30, 2009

LAST DELIVERY DATE: AUGUST 30, 2009

REASON FOR TERMINATION: Low usage

THE FOLLOWING PART NUMBERS ARE AFFECTED (ALTERNATIVE PART NUMBERS ARE SHOWN):

DISCONTINUED PART NUMBERS

Part Number	Cap. (μ F)	Voltage (Vdc)	Case Size (mm)	RCR (mA) 100KHz	Alternative Part Number*	RCR (mA) 100KHz
NACT471M6.3V8X10.5TR13F	470	6.3	8X10.5	182	NATT471M6.3V8X10.5NBF	160
NACT681M6.3V10X10.5TR13F	680	6.3	10X10.5	273	NATT681M6.3V10X10.5LBF	220
NACT102M6.3V12.5X14TR13F	1000	6.3	12.5X14	429	NATT102M6.3V12.5X14LBF	550
NACT152M6.3V12.5X14TR13F	1500	6.3	12.5X14	455	NATT152M6.3V12.5X14JBF	550
NACT331M10V8X10.5TR13F	330	10	8X10.5	156	NATT331M10V8X10.5NBF	160
NACT471M10V10X10.5TR13F	470	10	10X10.5	273	NATT471M10V10X10.5LBF	220
NACT681M10V12.5X14TR13F	680	10	12.5X14	390	NATT681M10V12.5X14JBF	550
NACT102M10V12.5X14TR13F	1000	10	12.5X14	416	NATT102M10V12.5X14JBF	550
NACT221M16V8X10.5TR13F	220	16	8X10.5	156	NATT221M16V8X10.5NBF	160
NACT331M16V10X10.5TR13F	330	16	10X10.5	273	NATT331M16V10X10.5LBF	220
NACT471M16V12.5X14TR13F	470	16	12.5X14	377	NATT471M16V12.5X14JBF	550
NACT681M16V12.5X14TR13F	680	16	12.5X14	390	NATT681M16V12.5X14JBF	550
NACT101M25V8X10.5TR13F	100	25	8X10.5	143	NATT101M25V8X10.5NBF	160

Part Number	Cap. (μ F)	Voltage (Vdc)	Case Size (mm)	RCR (mA) 100KHz	Alternative Part Number*	RCR (mA) 100KHz
NACT221M25V10X10.5TR13F	220	25	10X10.5	260	NATT221M25V10X10.5LBF	220
NACT331M25V12.5X14TR13F	330	25	12.5X14	351	NATT331M25V12.5X14JBF	550
NACT470M35V8X10.5TR13F	47	35	8X10.5	143	NATT470M35V8X10.5NBF	160
NACT101M35V10X10.5TR13F	100	35	10X10.5	247	NATT101M35V10X10.5LBF	220
NACT151M35V12.5X14TR13F	150	35	12.5X14	325	N/A	N/A
NACT221M35V12.5X14TR13F	220	35	12.5X14	338	NATT221M35V12.5X14JBF	550
NACT330M50V8X10.5TR13F	33	50	8X10.5	145	NATT330M50V8X10.5NBF	140
NACT470M50V10X10.5TR13F	47	50	10X10.5	208	NATT470M50V10X10.5LBF	240
NACT101M50V12.5X14TR13F	100	50	12.5X14	273	NATT101M50V12.5X14JBF	490
NACT151M50V12.5X14TR13F	150	50	12.5X14	286	N/A	N/A
NACT221M50V12.5X14TR13F	220	50	12.5X14	286	NATT221M50V12.5X14JBF	490

***NOTE:** Electrical characteristics are similar but may not be exact. Consult NACT and NATT datasheets for complete details.

PREPARED BY: Paul Harris, Technical Sales Manager, NIC TPMG

Surface Mount Aluminum Electrolytic Capacitors NACT Series

FEATURES

- EXTENDED TEMPERATURE **+125°C**
- CYLINDRICAL V-CHIP CONSTRUCTION FOR SURFACE MOUNTING
- WIDE TEMPERATURE RANGE AND HIGH RIPPLE CURRENT
- DESIGNED FOR AUTOMATIC MOUNTING AND REFLOW SOLDERING

RoHS Compliant
includes all homogeneous materials

*See Part Number System for Details



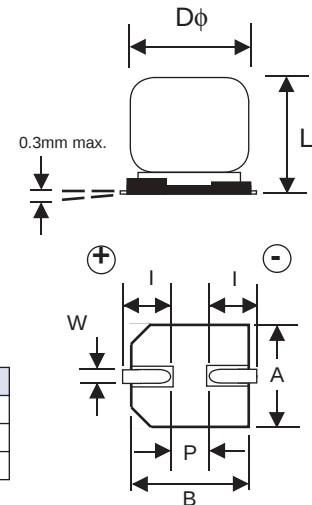
CHARACTERISTICS

Rated Voltage Range	6.3 ~ 50Vcc						
Rated Capacitance Range	33 ~ 1500μF						
Operating Temp. Range	-40 ~ +125°C						
Capacitance Tolerance	±20% (M), ±10% (K)*						
Max. Leakage Current After 2 Minutes @ 20°C	0.01CV or 3μA whichever is greater						
Tan δ @ 120Hz/20°C	W.V. (Vdc)	6.3	10	16	25	35	50
	S.V. (Vdc)	8.0	13	20	32	44	63
	Tan δ @ 120Hz/20°C	0.24	0.22	0.20	0.20	0.20	0.18
Low Temperature Stability Impedance Ratio @ 120Hz	W.V. (Vdc)	6.3	10	16	25	35	50
	Z -25°C/Z +20°C	4	3	2	2	2	2
	Z -40°C/Z +20°C	8	8	4	4	3	3
Load Life Test at W.V. 125°C 1,500 Hours	Capacitance Change	Within ±25% of initial measured value					
	Tan δ	Less than 300% of specified max. value					
	Leakage Current	Less than specified max. value					

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

STANDARD PRODUCT AND CASE SIZE Dφ xL (mm)

Cap.(μF)	Code	Working Voltage (Vdc)					
		6.3	10	16	25	35	50
33	330	-	-	-	-	-	8x10.5
47	470	-	-	-	-	8x10.5	10x10.5
100	101	-	-	-	8x10.5	10x10.5	12.5x14
150	151	-	-	-	-	12.5x14	12.5x14
220	221	-	-	8x10.5	10x10.5	12.5x14	12.5x14
330	331	-	8x10.5	10x10.5	12.5x14	-	-
470	471	8x10.5	10x10.5	12.5x14	-	-	-
680	681	10x10.5	12.5x14	12.5x14	-	-	-
1000	102	12.5x14	12.5x14	-	-	-	-
1500	152	12.5x14	-	-	-	-	-



DIMENSIONS (mm)

Case Size	Dφ ±0.5	L max.	A, B ±0.2	H max.	I ±0.3	P ±0.3	W	K
8 x 10.5	8.0	10.5	8.3	10.0	3.4	3.1	0.9 ± 0.2	0.7 ± 0.2
10 x 10.5	10.0	10.5	10.3	12.0	3.5	4.6	0.9 ± 0.2	0.7 ± 0.2
12.5 x 14T2	12.5	14.0	13.5	15.0	4.7	4.4	0.9 ± 0.3	0.7 ± 0.3

PART NUMBER SYSTEM

NACT | **101** | **M** | **25V** | **8x10.8** | **TR** | **13 E**

Series | Capacitance Code in μF, first 2 digits are significant
 Third digit is no. of zeros, "R" indicates decimal for values under 10μF | Tolerance Code M=20% | Working Voltage | Size in mm | Tape & Reel | 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



STANDARD VALUES, CASE SIZES & SPECIFICATIONS

Part Number	Cap. (μF)	Working Voltage	Dissipation Factor @120Hz/20°C	Max. ESR (Ω) AT 120Hz/20°C	Max. Ripple Current (mA rms) AT 120Hz/125°C
NACT471M6.3V8x10.5TR13F	470	6.3	0.24	1.06	140
NACT681M6.3V10x10.5TR13F	680		0.24	0.73	210
NACT102M6.3V12.5x14TR13F	1000		0.24	0.50	330
NACT152M6.3V12.5x14TR13F	1500		0.24	0.33	350
NACT331M10V8x10.5TR13F	330	10	0.22	1.21	120
NACT471M10V10x10.5TR13F	470		0.22	0.85	210
NACT681M10V12.5x14TR13F	680		0.22	0.59	300
NACT102M10V12.5x14TR13F	1000		0.22	0.40	320
NACT221M16V8x10.5TR13F	220	16	0.20	1.51	120
NACT331M16V10x10.5TR13F	330		0.20	1.01	210
NACT471M16V12.5x14TR13F	470		0.20	0.71	290
NACT681M16V12.5x14TR13F	680		0.20	0.49	300
NACT101M25V8x10.5TR13F	100	25	0.20	2.65	110
NACT221M25V10x10.5TR13F	220		0.20	1.21	200
NACT331M25V12.5x14TR13F	330		0.20	0.81	270
NACT470M35V8x10.5TR13F	47	35	0.20	4.95	110
NACT101M35V10x10.5TR13F	100		0.20	2.32	190
NACT151M35V12.5x14TR13F	150		0.20	1.55	250
NACT221M35V12.5x14TR13F	220		0.20	1.06	260
NACT330M50V8x10.5TR13F	33	50	0.18	7.05	100
NACT470M50V10x10.5TR13F	47		0.18	4.95	160
NACT101M50V12.5x14TR13F	100		0.18	2.32	210
NACT151M50V12.5x14TR13F	150		0.18	1.55	220
NACT221M50V12.5x14TR13F	220		0.18	1.06	220

RIPPLE CURRENT FREQUENCY CORRECTION FACTOR

Frequency (Hz)	100 ≤ f < 1K	1K ≤ f < 10K	10K ≤ f < 100K	100K ≤ f
C ≤ 33μF	1.0	1.2	1.3	1.45
33μF < C	1.0	1.1	1.2	1.3

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