

NACNW Series

Non-Polarized Surface Mount Aluminum Electrolytic Capacitors



FEATURES

- CYLINDRICAL V-CHIP CONSTRUCTION FOR SURFACE MOUNTING
- NON-POLARIZED, 1000 HOURS AT 105°C
- 5.5mm HEIGHT
- ANTI-SOLVENT (2 MINUTES)
- DESIGNED FOR REFLOW SOLDERING

CHARACTERISTICS

Rated Voltage Range	6.3 ~ 63Vcc							
Rated Capacitance Range	1.0 ~ 47μF							
Operating Temp. Range	-55 ~ +105°C							
Capacitance Tolerance	±20% (M)							
Max. Leakage Current After 1 Minutes @ 20°C	0.03CV + 8μA max.							
Tan δ @ 120Hz/20°C	W.V. (Vdc)	6.3	10	16	25	35	50	63
	Tan δ @ 120Hz/20°C	0.24	0.22	0.20	0.20	0.20	0.18	0.16
Low Temperature Stability Impedance Ratio @ 120Hz	W.V. (Vdc)	6.3	10	16	25	35	50	79
	Z -25°C/Z +20°C	3	3	2	2	2	2	2
	Z -40°C/Z +20°C	8	8	4	4	3	3	3
Load Life Test 105°C 1,000 Hours (Reverse polarity every 500 Hours)	Capacitance Change	Within ±25% of initial measured value						
	Tan δ	Less than 200% of specified max. value						
	Leakage Current	Less than specified max. value						



STANDARD VALUES, CASE SIZES & SPECIFICATIONS

Part Number	Cap. (μF)	Working Voltage	Max. ESR (Ω) AT 120Hz/20°C	Max. Ripple Current (mA rms) AT 120Hz/105°C
NACNW220M6.3V5X5.5TR13F	22	6.3Vdc	18.09	22
NACNW330M6.3V6.3X5.5TR13F	33		12.06	27
NACNW470M6.3V6.3X5.5TR13F	47		8.47	33
NACNW100M10V4X5.5TR15F	10	10Vdc	36.49	12
NACNW220M10V6.3X5.5TR13F	22		16.59	25
NACNW330M10V6.3X5.5TR13F	33		11.06	30
NACNW4R7M16V4X5.5TR15F	4.7	16Vdc	70.58	8
NACNW100M16V5X5.5TR13F	10		33.17	17
NACNW220M16V6.3X5.5TR13F	22		15.08	27
NACNW330M16V6.3X5.5TR13F	33		10.05	40
NACNW3R3M25V4X5.5TR15F	3.3	25Vdc	100.53	7
NACNW4R7M25V5X5.5TR13F	4.7		70.58	13
NACNW100M25V6.3X5.5TR13F	10		33.17	20
NACNW2R2M35V4X5.5TR15F	2.2	35Vdc	150.79	5.9
NACNW3R3M35V5X5.5TR13F	3.3		100.53	12
NACNW4R7M35V5X5.5TR13F	4.7		70.58	14
NACNW100M35V6.3X5.5TR13F	10		33.17	21
NACNW1R0M50V4X5.5TR15F	1.0	50Vdc	298.57	7
NACNW2R2M50V5X5.5TR13F	2.2		135.71	10
NACNW3R3M50V5X5.5TR13F	3.3		90.47	13
NACNW4R7M50V6.3X5.5TR13F	4.7		63.52	16
NACNW100M50V6.3X5.5TR13F	10		23.89	18
NACNW1R0M63V4X5.5TR15F	1.0	63	265.39	7
NACNW2R2M63V5X5.5TR13F	2.2		120.63	10
NACNW3R3M63V6.3X5.5TR13F	3.3		80.42	13
NACNW4R7M63V6.3X5.5TR13F	4.7		54.47	16

For Automotive Equipment see part number system

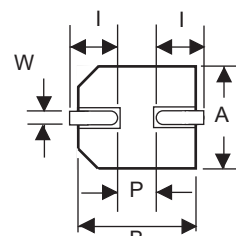
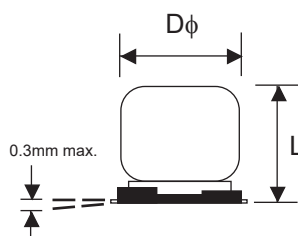
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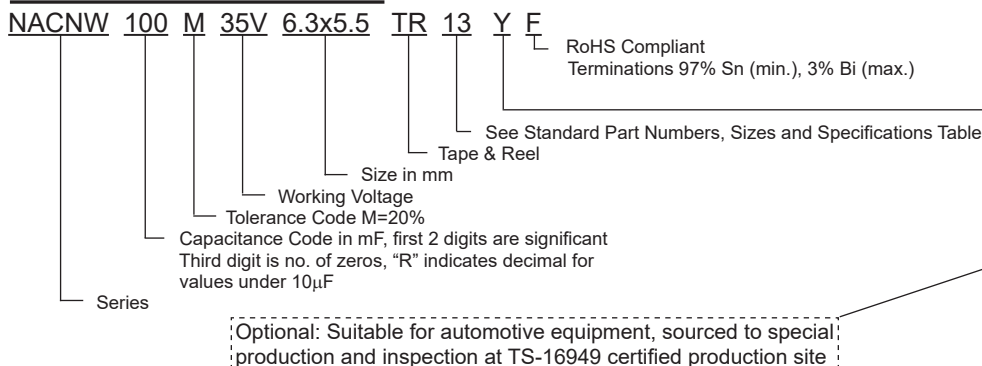


DIMENSIONS (mm)

Case Size	$D\phi \pm 0.5$	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



PART NUMBER SYSTEM



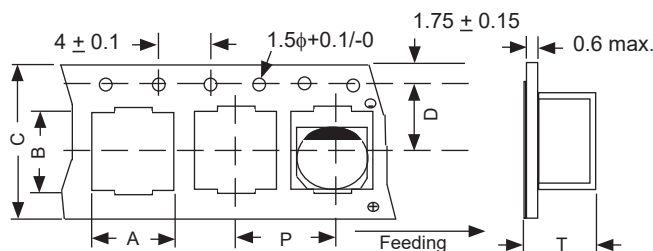
CARRIER TAPE

Case Size	$A \pm 0.2$	$B \pm 0.2$	$C \pm 0.3$	$D \pm 0.1$	$P \pm 0.1$	$T \pm 0.2$
4 x 5.5	4.7	4.7	12.0	5.5	8.0	5.8
5 x 5.5	5.7	5.7	12.0	5.5	12.0	5.8
6.3 x 5.5	7.0	7.0	16.0	7.5	12.0	5.8

TAPING SPECIFICATIONS (mm)

- Both Leader and Trailer tape: Minimum 40mm (1.57") empty carrier tape pockets.
- Leader tape: Approximately 20cm of cover tape at leader.
- Connection: Maximum 3 connections (slices) per reel.

CARRIER



PRECAUTIONS

Please review the notes on correct use, safety and precautions found at <https://www.niccomp.com/wp-content/uploads/files/aluminum/AlumApplInfoCautions.pdf>. If in doubt or uncertainty, please review your specific application - process details with NIC's technical support personnel: tpmg@niccomp.com

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Non-Polarized Surface Mount Aluminum Electrolytic Capacitors



TR13 330mm (13") REEL

TR15 380mm (15") REEL

Case Size	W ± 1	Quantity Per Reel	
		13" Reel	15" Reel
4 x 5.5	14.0	N/A	2,000 pcs
5 x 5.5	14.0	1,000 pcs	N/A
6.3 x 5.5	18.0	1,000 pcs	N/A

REEL DIMENSIONS

