

Issue Date: April 10th, 2025

ID#: 604247

Subject: NACH End of Life Notification

Notification Type: End of Life

Effected NIC Products: NACH Series

Effective Date: April 10th, 2025

Description: Due to low market demand NIC is discontinuing the NACH series of V-chip aluminum electrolytic capacitors.

Effective Date: April 10th, 2025 Last Order

Date: October 31st, 2025

Last Ship Date: January 20th, 2026 ,

EOL Part Numbers	Possible Alternative	Comments
NACH470M4V4x6.3TR15F	NAZJ470M6.3V4X6.1NLBF	Higher Voltage
NACH470M4V4x6.3TR15YF	NAZJ470M6.3V4X6.1NLBF	Not AEC-Q200, Higher Voltage
NACH101M4V5x6.3TR15F	NAZT101M6.3V5X6.3NLBF	Higher Voltage
NACH101M4V5x6.3TR15YF	NAZT101M6.3V5X6.3NLBYF	Higher Voltage
NACH221M4V6.3x6.3TR15F	NAZT221M6.3V6.3X6.3NLBF	Higher Voltage
NACH221M4V6.3x6.3TR15YF	NAZT221M6.3V6.3X6.3NLBYF	Higher Voltage
NACH220M6.3V4x6.3TR15F	NAZT220M10V4X6.3NLBF	Higher Voltage
NACH220M6.3V4x6.3TR15YF	NAZT220M10V4X6.3NLBYF	Higher Voltage
NACH330M6.3V4x6.3TR15F	NAZJ330M10V4X6.1NLBF	Higher Voltage
NACH330M6.3V4x6.3TR15YF	NAZJ330M10V4X6.1NLBF	Not AEC-Q200, Higher Voltage
NACH470M6.3V5x6.3TR15F	NAZU470M10V5X6.3NLBF	Higher Voltage
NACH470M6.3V5x6.3TR15YF	NAZU470M10V5X6.3NLBYF	Higher Voltage
NACH101M6.3V6.3x6.3TR15F	NAZT101M16V6.3X6.3NLBF	Higher Voltage
NACH101M6.3V6.3x6.3TR15YF	NAZT101M16V6.3X6.3NLBYF	Higher Voltage
NACH330M10V5x6.3TR15F	NAZT330M10V5X6.3NLBF	
NACH330M10V5x6.3TR15YF	NAZT330M10V5X6.3NLBYF	
NACH100M16V4x6.3TR15F	NAZT100M25V4X6.3NLBF	Higher Voltage
NACH100M16V4x6.3TR15YF	NAZT100M25V4X6.3NLBYF	Higher Voltage
NACH220M16V5x6.3TR15F	NAZT220M35V5X6.3NLBF	Higher Voltage
NACH220M16V5x6.3TR15YF	NAZT220M35V5X6.3NLBYF	Higher Voltage
NACH470M16V6.3X6.3TR15F	NAZT470M35V6.3X6.3NLBF	Higher Voltage
NACH470M16V6.3X6.3TR15YF	NAZT470M35V6.3X6.3NLBYF	Higher Voltage
NACH4R7M25V4x6.3TR15F	NAZT4R7M35V4X6.3NLBF	Higher Voltage
NACH4R7M25V4x6.3TR15YF	NAZT4R7M35V4X6.3NLBYF	Higher Voltage
NACH330M25V6.3x6.3TR15F	NAZT330M25V6.3X6.3NLBF	
NACH330M25V6.3x6.3TR15YF	NAZT330M25V6.3X6.3NLBYF	
NACH100M35V5x6.3TR15F	NAZT100M35V5X6.3NLBF	
NACH100M35V5x6.3TR15YF	NAZT100M35V5X6.3NLBYF	
NACH220M35V6.3x6.3TR15F	NAZT220M50V6.3X6.3NLBF	Higher Voltage
NACH220M35V6.3x6.3TR15YF	NAZT220M50V6.3X6.3NLBYF	Higher Voltage
NACH1R0M50V4x6.3TR15F	NAWU1R0M50V4X6.3LLBF	Lower RCR, Longer Life

EOL Part Numbers	Possible Alternative	Comments
NACH1R0M50V4x6.3TR15YF	NAWU1R0M50V4X6.3LLBYF	Lower RCR, Longer Life
NACH2R2M50V4x6.3TR15F	NAWU2R2M50V4X6.3LLBF	Lower RCR, Longer Life
NACH2R2M50V4x6.3TR15YF	NAWU2R2M50V4X6.3LLBYF	Lower RCR, Longer Life
NACH3R3M50V4x6.3TR15F	NAWU3R3M50V4X6.3LLBF	Lower RCR, Longer Life
NACH3R3M50V4x6.3TR15YF	NAWU3R3M50V4X6.3LLBYF	Lower RCR, Longer Life
NACH4R7M50V5x6.3TR15F	NAWU4R7M50V5X6.3LLBF	Lower RCR, Longer Life
NACH4R7M50V5x6.3TR15YF	NAWU4R7M50V5X6.3LLBYF	Lower RCR, Longer Life
NACH100M50V6.3x6.3TR15F	NAZT100M50V6.3X6.3NLBF	
NACH100M50V6.3x6.3TR15YF	NAZT100M50V6.3X6.3NLBYF	

Prepared by NIC
Components TPMG, tpmg@niccomp.com

NACH Series

Surface Mount Aluminum Electrolytic Capacitors



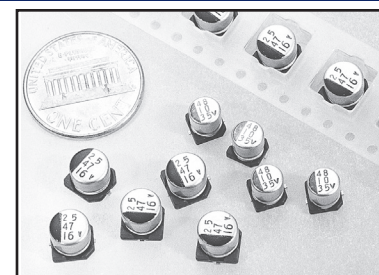
FEATURES

- CYLINDRICAL V-CHIP CONSTRUCTION
- WIDE TEMPERATURE -40° ~+105°C
- LONG LIFE (+105°C, 2000 HOURS)
- 6.3 mm MAXIMUM HEIGHT
- DESIGNED FOR REFLOW SOLDERING
- **MEETS THE REQUIREMENTS OF AEC-Q200***

*Contact NIC for supporting test data

CHARACTERISTICS

Rated Voltage Range	4 ~ 50Vdc							
Rated Capacitance Range	1.0 ~ 220μF							
Operating Temp. Range	-40°C ~ +105°C							
Capacitance Tolerance	±20% (M)							
Max. Leakage Current After 2 Minutes @ 20°C	0.01CV or 3μA whichever is greater							
Working Voltage/Surge Voltage Max. Tan δ @120Hz/20°C	W.V. (Vdc)	4	6.3	10	16	25	35	50
	S.V. (Vdc)	5	8.0	13	20	32	44	63
	Dissipation Factor	0.50	0.30	0.22	0.16	0.14**	0.12	0.12
Low Temperature Stability Impedance Ratio @ 120Hz	Z-40°C/Z+20°C	7	4	3	2	2	2	2
	Z-55/Z+20°C	12	8	6	4	4	3	3
Load Life Test @105°C 2,000 Hours	Capacitance Change	Within ±25% of initial measured value						
	Tan δ	Less than 200% of specified value						
	Leakage Current	Less than specified value						



STANDARD VALUES AND CASE SIZES (mm)

Cap (μF)	Code	Working Voltage (Vdc)						
		4.0	6.3	10	16	25	35	50
1.0	1R0	-	-	-	-	-	-	4x6.3
2.2	2R2	-	-	-	-	-	-	4x6.3
3.3	3R3	-	-	-	-	-	-	4x6.3
4.7	4R7	-	-	-	-	4x6.3	-	5x6.3
10	100	-	-	-	4x6.3	-	5x6.3	6.3x6.3
22	220	-	4x6.3	-	5x6.3	-	6.3x6.3	-
33	330	-	4x6.3	5x6.3	-	6.3x6.3	-	-
47	470	4x6.3	5x6.3	-	6.3x6.3	-	-	-
100	101	5x6.3	6.3x6.3	-	-	-	-	-
220	221	6.3x6.3	-	-	-	-	-	-

PART NUMBER SYSTEM

NACH 100 M 35V 5x6.3 TR 15 Y E

RoHS Compliant
97% Sn (min.), 3% Bi (max.)

15" (380mm)
Tape & Reel

Size in mm

Working Voltage

Tolerance Code M=20%

Capacitance Code in mF, first 2 digits are significant
Third digit is no. of zeros, "R" indicates decimal for values under 10μF

Series

Optional: Suitable for automotive equipment, sourced to special production and inspection at IATF-16949 certified production site

PRECAUTIONS

Please review the notes on correct use, safety and precautions found at <https://www.niccomp.com/resource/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

NACH Series

Surface Mount Aluminum Electrolytic Capacitors



STANDARD VALUES, CASE SIZES AND SPECIFICATIONS

NIC Part Number	Cap. (μF)	W.V. (Vdc)	Dissipation Factor (Tan δ)	Max. Ripple Current (mA) +105°C/120Hz	Maximum ESR (Ω) +20°C/120Hz	Load Life Hours @ +105°C
NACH470M4V4x6.3TR15F	47	4.0	0.50	34	17.7	2,000
NACH101M4V5x6.3TR15F	100		0.50	61	8.31	2,000
NACH221M4V6.3x6.3TR15F	220		0.50	82	3.77	2,000
NACH220M6.3V4x6.3TR15F	22	6.3	0.30	26	22.6	2,000
NACH330M6.3V4x6.3TR15F	33		0.30	29	15.1	2,000
NACH470M6.3V5x6.3TR15F	47		0.30	46	10.6	2,000
NACH101M6.3V6.3x6.3TR15F	100		0.30	71	4.98	2,000
NACH330M10V5x6.3TR15F	33	10	0.22	43	11.1	2,000
NACH100M16V4x6.3TR15F	10	16	0.16	28	26.6	2,000
NACH220M16V5x6.3TR15F	22		0.16	39	12.1	2,000
NACH470M16V6.3x6.3TR15F	47		0.16	70	5.66	2,000
NACH47M25V4x6.3TR15F	4.7	25	0.14	22	49.5	2,000
NACH330M25V6.3x6.3TR15F	33		0.14	65	7.05	2,000
NACH100M35V5x6.3TR15F	10	35	0.12	28	19.9	2,000
NACH220M35V6.3x6.3TR15F	22		0.12	55	9.05	2,000
NACH1R0M50V4x6.3TR15F	1.0	50	0.12	10	199	2,000
NACH2R2M50V4x6.3TR15F	2.2		0.12	16	90.6	2,000
NACH3R3M50V4x6.3TR15F	3.3		0.12	16	60.4	2,000
NACH4R7M50V5x6.3TR15F	4.7		0.12	23	42.4	2,000
NACH100M50V6.3x6.3TR15F	10		0.12	35	19.9	2,000

For Automotive Equipment see part number system

RIPPLE CURRENT FREQUENCY CORRECTION FACTOR

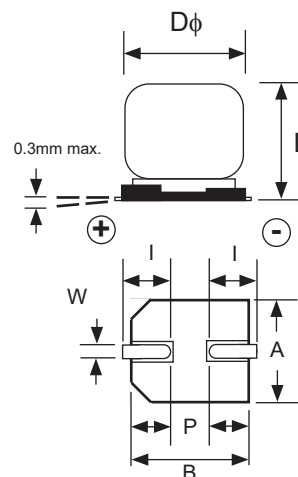
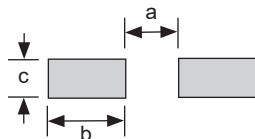
Frequency Hz	50 ≤ f < 100	100 ≤ f < 1K	1K ≤ f < 10K	10K ≤ f < 100K
Correction Factor	0.8	1.0	1.3	1.5

DIMENSIONS (mm)

Case Size	Dφ ±0.5	L max.	A ±0.2	B ±0.2	I ±0.2	W	P ±0.2
4 x 6.3	4.0	6.3	4.3	4.3	1.8	0.5 ~ 0.8	1.0
5 x 6.3	5.0	6.3	5.3	5.3	2.2	0.5 ~ 0.8	1.5
6.3 x 6.3	6.3	6.3	6.6	6.6	2.5	0.5 ~ 0.8	2.2

RECOMMENDED LAND PATTERN DIMENSIONS (mm)

Case Size	a	b	c
4 φ	1.0	2.6	1.8
5 φ	1.4	3.0	1.8
6.3 φ	1.8	3.6	1.8



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

NACH Series

Surface Mount Aluminum Electrolytic Capacitors

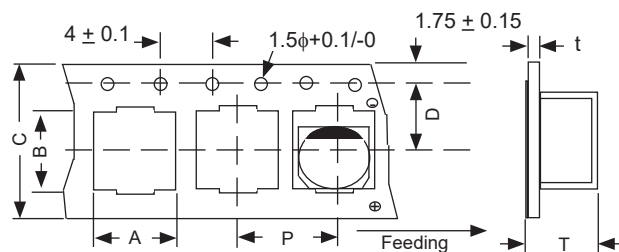


EMBOSSED CARRIER DIMENSIONS (mm)

Case Size	A ± 0.5	B ± 0.5	C ± 0.3	D ± 0.1	P ± 0.1	T ± 0.2	t ± 0.2
4 x 6.3	4.7	4.7	12.0	5.5	8.0	6.4	0.6
5 x 6.3	5.7	5.7	12.0	5.5	12.0	6.4	0.6
6.x x 6.3	7.0	7.0	16.0	7.5	12.0	6.5	0.6

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.

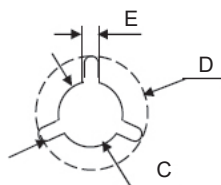
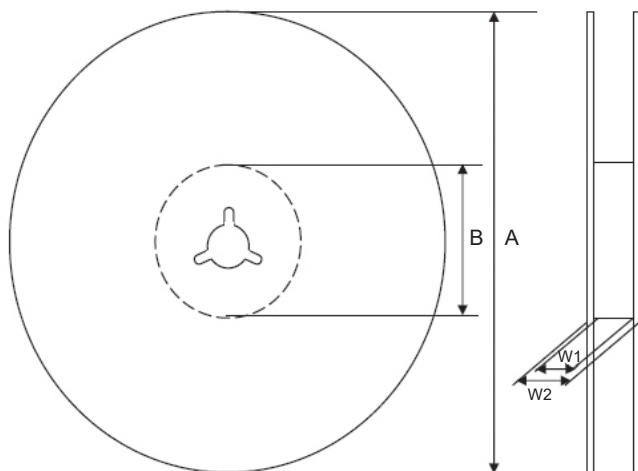


V-Chip 15" (380mm) Reels (TR15 suffix)

Dimensions (mm)

Case Size	Tape Width	W1	W2
4x6.3, 5x6.3	12.0	12.5 ~ 14.0	15.5 ~ 20.0
6.3x6.3	16.0	16.5 ~ 18.0	19.5 ~ 24.0

Case Size	Tape Width	A	B	C	D	E
4x6.3, 5x6.3	12.0	φ380 ±2	φ80~105	φ13 ±0.5	φ21 ±1.0	2.0 ±0.5
6.3x6.3	16.0					



Case Size	Reel Quantity 380mm
4x6.3	2,000
5x6.3	1,000
6.3x6.3	1,000