

www.niccomp.com/pcn | Technical Support: tpmg@niccomp.com

Issued: June 28th, 2022

SUB: EOL Notice

Product Type: Radial Leaded Double Layer Capacitors

NIC Series: NEZB, NEZHL, NEZHC, NEZX, NEZVL and NEZVN Series

Product Specification:

http://www.niccomp.com/products/catalog/nezb.pdf http://www.niccomp.com/products/catalog/nezhl.pdf http://www.niccomp.com/products/catalog/nezkc.pdf http://www.niccomp.com/products/catalog/nezx.pdf http://www.niccomp.com/products/catalog/nezvn\_nezvl.pdf

Notification: End of Life Notification

The following is notice of end of life for the NEZB, NEZHL, NEZHC, NEZX, NEZVL and NEZVN series.

Effective: July 28th, 2022

Last Order Date: January 31st, 2023 for established customers with existing business and due to limited allocation purchases are

restricted to past history of shipping quantities

Last Ship Date: March 30th, 2024 for established customers with existing business

Reason for Discontinuation: Low Demand

Part Number	Capacitance (F)	Voltage	Size (mm)	Possible Alternative
NEZB473Z5.5V13.5X7.5F	0.047	5.5	13.5X7.5	NEXS473Z5.5V13X8.5F
NEZB104Z5.5V13.5X7.5F	0.1	5.5	13.5X7.5	NEXS104Z5.5V16.5X8.5F
NEZB224Z5.5V13.5X7.5F	0.22	5.5	13.5X7.5	NEXS224Z5.5V16.5X13F
NEZB334Z5.5V13.5X7.5F	0.33	5.5	13.5X7.5	N/A
NEZB474Z5.5V21.5X8F	0.47	5.5	21.5X8	NEXS474Z5.5V21.5X13
NEZB105Z5.5V21.5X8F	1	5.5	21.5X8	NEXS105Z5.5V28.5X14
NEZB155Z5.5V21.5X8F	1.5	5.5	21.5X8	N/A
NEZHL473Z5.5V13.5X9.5F	0.047	5.5	13.5X9.5	NEXS473Z5.5V13X8.5F
NEZHL104Z5.5V13.5X9.5F	0.1	5.5	13.5X9.5	NEXS104Z5.5V16.5X8.5F
NEZHL224Z5.5V13.5X9.5F	0.22	5.5	13.5X9.5	NEXS224Z5.5V16.5X13F
NEZHL474Z5.5V21.5X9.5F	0.47	5.5	21.5X9.5	NEXS474Z5.5V21.5X13F
NEZHL105Z5.5V21.5X9.5F	1	5.5	21.5X9.5	NEXT105Z5.5V21.5X13F
NEZHC473Z5.5V13.5X9.5F	0.047	5.5	13.5X9.5	NEXS473Z5.5V13X8.5F
NEZHC104Z5.5V13.5X9.5F	0.1	5.5	13.5X9.5	NEXS104Z5.5V16.5X8.5F
NEZHC224Z5.5V13.5X9.5F	0.22	5.5	13.5X9.5	NEXS224Z5.5V16.5X13F
NEZHC474Z5.5V21.5X9.5F	0.47	5.5	21.5X9.5	NEXS474Z5.5V21.5X13
NEZHC684Z5.5V21.5X9.5F	0.68	5.5	21.5X9.5	NEXT105Z5.5V21.5X13F
NEZHC105Z5.5V21.5X9.5F	1	5.5	21.5X9.5	NEXT105Z5.5V21.5X13F



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Part Number	Capacitance (F)	Voltage	Size (mm)	Possible Alternative	
NEZX473Z5.5VV11.5X13F	0.047	5.5	11.5X13	NEXS473Z5.5V13X8.5F	
NEZX473Z5.5VH11.5X5F	0.047	5.5	11.5X5	N/A	
NEZX104Z5.5VV11.5X13F	0.1	5.5	11.5X13	N/A	
NEZX104Z5.5VH11.5X5F	0.1	5.5	11.5X5	N/A	
NEZX224Z5.5VV11.5X13F	0.22	5.5	11.5X13	N/A	
NEZX224Z5.5VH11.5X5F	0.22	5.5	11.5X5	N/A	
NEZX334Z5.5VV11.5X13F	0.33	5.5	11.5X13	N/A	
NEZX334Z5.5VH11.5X5F	0.33	5.5	11.5X5	N/A	
NEZX105Z5.5VV19X20.5F	1	5.5	19X20.5	NEXT105Z5.5V21.5X13F	
NEZX155Z5.5VV19X20.5F	1.5	5.5	19X20.5	NEXG225Z5.5V21.5X19F	
NEZX474Z5.5VV11.5X13F	0.47	5.5	11.5X13	NEXS473Z5.5V13X8.5F	
NEZX474Z5.5VH11.5X5F	0.47	5.5	11.5X5	N/A	
NEZX474Z5.5VV19X20.5F	0.47	5.5	19X20.5	NEXS474Z5.5V21.5X13	
NEZVL473Z5.5V12.5x10.5TRF	0.047	5.5	12.5x10.5	N/A	
NEZVL104Z5.5V12.5x10.5TRF	0.1	5.5	12.5x10.5	NEXCW473Z5.5V10.7X5.5TRF	
NEZVL224Z5.5V12.5x10.5TRF	0.22	5.5	12.5x10.5	NEXCW224Z5.5V10.7X8.5TRF	
NEZVN473Z5.5V12.5x8.5TRF	0.047	5.5	12.5x8.5	NEXC473Z5.5V10.5X5.5TRF	
NEZVN104Z5.5V12.5x8.5TRF	0.1	5.5	12.5x8.5	NEXC104Z5.5V10.5X5.5TRF	
NEZVN224Z5.5V12.5x8.5TRF	0.22	5.5	12.5x8.5	NEXC224Z5.5V10.5X8.5TRF	

Prepared by: Technical Product Marketing Group /  $\underline{\mathsf{tpmg@niccomp.com}}$ 

→ Follow NIC PCN alerts to get email notifications of EOL and PCN announcements at <a href="www.niccomp.com/pcn">www.niccomp.com/pcn</a>

Use our Quickbuilder tool to find possible alternatives for the discontinued NACK parts: <a href="http://www.niccomp.com/QuickBUILDER/qb">http://www.niccomp.com/QuickBUILDER/qb</a> capacitor.php

## **FEATURES**

- DOUBLE LAYER CAPACITOR
- WIDE TEMPERATURE (-25°C~ +85°C)
- LONG LIFE (3,000 HOURS)
- SUITABLE FOR FLOW SOLDERING

# • LEAD-FREE FINISH





#### **CHARACTERISTICS**

Rated Voltage Range	5.5VDC			
Rated Capacitance Range	0.047F ~ 1.0F (47,000μF ~ 1,000,000μF)	Super Capacitor		
Operating Temp. Range	-25°C ~ +85°C	Application Guide		
Capacitance Tolerance	+80%/-20% (Z)			
Load Life Test @ 85°C 3,000 hours	$\Delta$ Capacitance Change	Less than ±30% of initial measured value		
	Maximum ESR	Less than 400% of the specified maximum value		
Temperature Characteristics	$\Delta$ Capacitance Change	Within ±30% of 20°C value		
-25°C & +85°C	Maximum ESR	500% of 20°C value		
Shelf Life @ +85°C (1,000 hours)	Δ Capacitance Change	Less than ±30% of initial measured value		
	Maximum ESR	Less than 400% of the specified maximum value		

## STANDARD VALUES AND SPECIFICATIONS

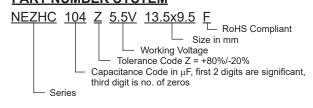
NIC P/N	Case Size (mm)	Capacitance (F)	Voltage (VDC)	Holding Voltage (VDC min.)*	Max. Leakage Current @ minutes (μA)	Max. ESR @ 1KHz (Ω)
NEZHC473Z5.5V13.5X9.5F	13.5X9.5	0.047	5.5	4.0	69 @ 30 minutes	300
NEZHC104Z5.5V13.5X9.5F	13.5X9.5	0.1	5.5	4.0	100 @ 30 minutes	200
NEZHC224Z5.5V13.5X9.5F	13.5X9.5	0.22	5.5	4.0	135 @ 30 minutes	120
NEZHC474Z5.5V21.5X9.5F	21.5X9.5	0.47	5.5	4.0	216 @ 30 minutes	50
NEZHC684Z5.5V21.5X9.5F	21.5X9.5	0.68	5.5	4.0	260 @ 30 minutes	50
NEZHC105Z5.5V21.5X9.5F	21.5X9.5	1.0	5.5	4.0	315 @ 30 minutes	30

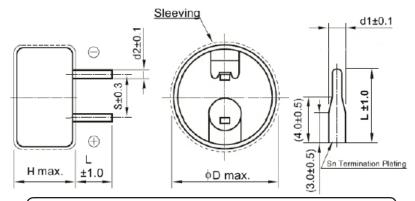
<sup>\*</sup>Minimum voltage at 24 hours after charging for 1 hour at 5VDC.

## **CASE DIMENSIONS (mm)**

NIC P/N	DIMENSIONS (mm)					
NIO F/N	D	Н	S	L	d,	d <sub>2</sub>
NEZHC473Z5.5V13.5X9.5F	13.5	9.5	5.0	6.0	1.2	0.5
NEZHC104Z5.5V13.5X9.5F	13.5	9.5	5.0	6.0	1.2	0.5
NEZHC224Z5.5V13.5X9.5F	13.5	9.5	5.0	6.0	1.2	0.5
NEZHC474Z5.5V21.5X9.5F	21.5	9.5	5.0	6.0	1.2	0.5
NEZHC684Z5.5V21.5X9.5F	21.5	9.5	5.0	6.0	1.2	0.5
NEZHC105Z5.5V21.5X9.5F	21.5	9.5	5.0	6.0	1.2	0.5

# **PART NUMBER SYSTEM**





#### **PRECAUTIONS**

Please review the notes on correct use, safety and precautions found at  $https://www.niccomp.com/resource/files/double/Double\_Layer\_Capacitor\_Guide\_0810-RevBrA7.pdf$ If in doubt or uncertainty, please review your specific application - process details with NIC's technical support personnel: tpmg@niccomp.com

