

Memory Back-Up Capacitors

NEZB Series

FEATURES

- DOUBLE LAYER CAPACITOR
- SUITABLE FOR FLOW SOLDERING
- LEAD-FREE FINISH

**RoHS
Compliant**
includes all homogeneous materials



CHARACTERISTICS

Rated Voltage Range	5.5VDC	
Rated Capacitance Range	0.047F ~ 1.0F (47,000μF ~ 1,000,000μF)	
Operating Temp. Range	-25°C ~ +70°C	
Capacitance Tolerance	+80%/-20% (Z)	
Load Life Test @ 70°C 1,000 hours	Δ Capacitance Change	Less than ±30% of initial measured value
	Maximum ESR	Less than 400% of the specified maximum value
Temperature Characteristics -25°C & +70°C	Δ Capacitance Change	Within +30% of 20°C value
	Maximum ESR	Less than 500% x 20°C value
Shelf Life @ +70°C (1,000 hours)	Δ Capacitance Change	Less than ±30% of initial measured value
	Maximum ESR	Less than 400% of the specified maximum value

**Super Capacitor
Application Guide**

STANDARD VALUES AND SPECIFICATIONS

NIC P/N	Case Size (mm)	Capacitance (F)	Holding Voltage (VDC min.)*	Max. Leakage Current @ minutes (μA)	Max. ESR @ 1KHz (Ω)
NEZB473Z5.5V13.5X7.5F	13.5X7.5	0.047	4.0	69 @ 30 minutes	120
NEZB104Z5.5V13.5X7.5F	13.5X7.5	0.1	4.0	100 @ 30 minutes	75
NEZB224Z5.5V13.5X7.5F	13.5X7.5	0.22	4.0	135 @ 30 minutes	75
NEZB334Z5.5V13.5X7.5F	13.5X7.5	0.33	4.0	182 @ 30 minutes	75
NEZB474Z5.5V21.5X8F	21.5X8	0.47	4.0	216 @ 30 minutes	30
NEZB105Z5.5V21.5X8F	21.5X8	1.0	4.0	315 @ 30 minutes	30
NEZB155Z5.5V21.5X8F	21.5X8	1.5	4.0	450 @ 60 minutes	30

*Minimum voltage at 24 hours after charging for 1 hour at 5VDC.

PART NUMBER SYSTEM

NEZB 105 Z 5.5V 21.5x8 F

Series Capacitance Code in μF, first 2 digits are significant, third digit is no. of zeros Working Voltage Size in mm RoHS Compliant

PRECAUTIONS

WASHING is NOT RECOMMENDED. Additional guidelines and precautions can be 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



NIC COMPONENTS CORP. www.niccomp.com | www.lowESR.com | www.RFpassives.com | www.SMTmagnetics.com

SPECIFICATIONS ARE SUBJECT TO CHANGE

CASE DIMENSIONS (mm)

NIC P/N	DIMENSIONS (mm)					
	D max.	H max.	S ± 0.3	L ± 1.0	d ₁ ± 0.1	d ₂ ± 0.1
NEZB473Z5.5V13.5X7.5F	13.5	7.5	5.0	6.0	1.2	0.5
NEZB104Z5.5V13.5X7.5F	13.5	7.5	5.0	6.0	1.2	0.5
NEZB224Z5.5V13.5X7.5F	13.5	7.5	5.0	6.0	1.2	0.5
NEZB334Z5.5V13.5X7.5F	13.5	7.5	5.0	6.0	1.2	0.5
NEZB474Z5.5V21.5X8F	21.5	8.0	5.0	6.0	1.2	0.5
NEZB105Z5.5V21.5X8F	21.5	8.0	5.0	6.0	1.2	0.5
NEZB155Z5.5V21.5X8F	21.5	8.0	5.0	6.0	1.2	0.5

