Radial Leaded & Snap-in Back-Up Capacitors

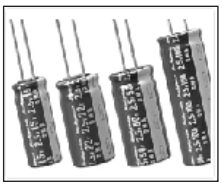
NEDZB Series

FEATURES

- HIGH CAPACITANCE (UP TO 200F)
- IDEAL AS POWER SUPPLY BACK-UP
- IMPROVED CAPACITANCE TOLERANCE (±30%)
- IMPROVED ESR CHARACTERISTICS

RoHS Compliant
Includes all homogeneous materials

*See Part Number System for Details



CHARACTERISTICS

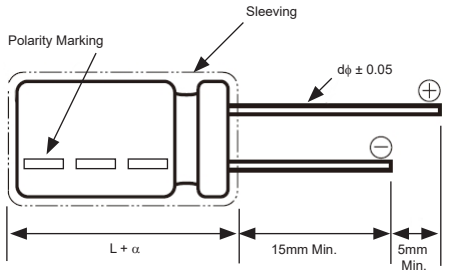
Series	NEDZB			
Rated Capacitance Range	1.0F, 2.7F, 4.7F & 10F			22F, 50F, 100F & 200F
Rated Voltage Range	2.7VDC			2.5VDC & 2.7VDC
Operating Temp. Range	-25°C ~ +70°C			-25°C ~ +60°C
Capacitance Tolerance	±30% @ +20°C			±30% @ +20°C
Load Life Test 1F ~ 10F: @+70°C 1,000 hours 22F ~ 200F: @+60°C 1,000 hours	Δ C = Less than ±30% of initial measured value			
	Max. ESR = Less than 200% of the specified max. value			
Temperature Characteristics 1F ~ 10F: -25°C & +70°C 22F ~ 200F: -25°C & +60°C	Step 2	Cap.	Greater than 70% of the initial measured value	
		ESR	Less than 500% of the initial measured value	
	Step 4	Cap.	Less than 150% of the initial measured value	
		ESR	Less than initial specified value	
	Step 1, 3, 5	Cap.	Within ±20% of the initial measured value	
		ESR	Less than initial specified value	
Humidity Resistance 40°C±2°C, 90~95%RH, 240 hrs±8hrs	Δ C = Within ±20% of inital measured value			
	Max. ESR = Less than 120% of initial specified value			
Temperature Cycling (5 cycles) -25°C (30 ± 3minutes) transition to +20°C (<3 minutes) than to max temp. (30 ± 3 minutes)	Capacitiance = Within inital specified value			
	Max. ESR = Within initial specified value			

Step	1	2	3	4	5
T (°C)	+20	-25	+20	+60 or +70	+20

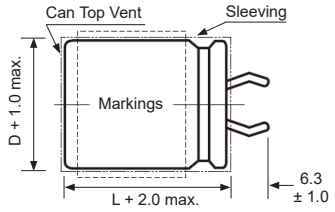
STANDARD VALUES AND SPECIFICATIONS

NIC P/N	Case Size (mm)	Capacitance (F)	Voltage (VDC)	Max. Leakage Current @ 30 minutes (mA)	Max. ESR @ 1KHz (mΩ)	Lead Style
NEDZB506N2.5V18X40F	18X40	50	2.5	40	50	Radial
NEDZB105N2.7V8X12F	8X12	1.0	2.7	0.8	300	Radial
NEDZB275N2.7V8X22F	8X22	2.7		2.2	300	Radial
NEDZB475N2.7V10X20F	10X20	4.7		3.8	100	Radial
NEDZB106N2.7V10X35F	10X35	10		8.0	100	Radial
NEDZB226N2.7V12.5X35F	12.5X35	22		18	100	Radial
NEDZB107N2.7V25X50F	25X50	100		81	30	Snap-in
NEDZB207N2.7V35X50F	35X50	200		162	30	Snap-in

RADIAL LEAD



SNAP-IN LEAD



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**

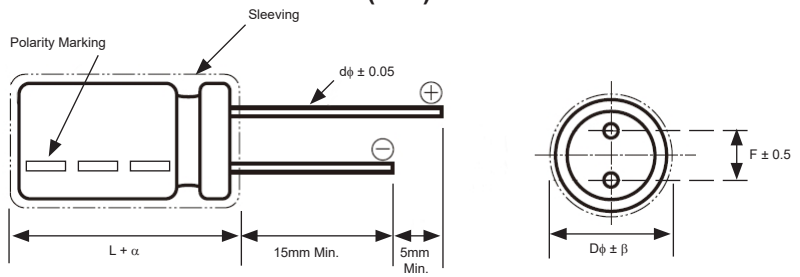
PART NUMBER SYSTEM

NEDZB 506 N 2.5V 18X40 F

- F — RoHS Compliant
- 18X40 — Size in mm
- 2.5V — Working Voltage
- N — Tolerance Code N = ±30%
- 506 — Capacitance Code in μF, first 2 digits are significant, third digit is no. of zeros
- NEDZB — Series

Case Dia. (Dϕ)	8		10		12.5	18	25	35
Length (L)	12.0	22.0	20.0	35.0	35.0	40.0	50.0	50.0
Lead Space (F)	3.5		5.0			7.5	-	-
Lead Dia. (dϕ)	0.6					0.8	-	-
Dim. α	2.0						-	-
Dim. β	0.5						-	-

RADIAL LEAD DIMENSIONS (mm)



Drawing is representative of parts as supplied in bulk or straight lead format, please see taping specification for details on taped format packaging.

SNAP-IN LEAD DIMENSIONS (mm)