

Radial Leaded & Snap-in Back-Up Capacitors

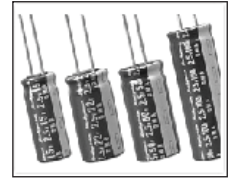
NEDZB Series

FEATURES

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

**RoHS
Compliant**
Includes all homogeneous materials

*See Part Number System for Details



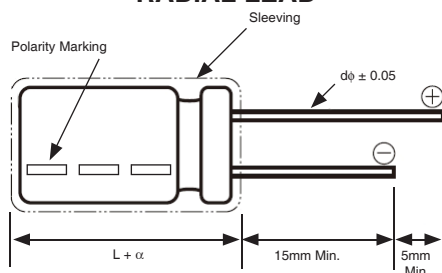
CHARACTERISTICS

| 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 <table><tr><td>Step</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td>T (°C)</td><td>+20</td><td>-25</td><td>+20</td><td>+60 or +70</td><td>+20</td></tr></table> | Step | 1 | 2 | 3 | 4 | 5 | T (°C) | +20 | -25 | +20 | +60 or +70 | +20 | Step 2 | Cap. | Greater than 70% of the initial measured value | | |
| | Step | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | |
| | T (°C) | +20 | -25 | +20 | +60 or +70 | +20 | | | | | | | | | | | |
| | 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 initial 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) | Capacitance = Within initial specified value | | | | | | | | | | | | | | | | |
| | Max. ESR = Within initial specified value | | | | | | | | | | | | | | | | |

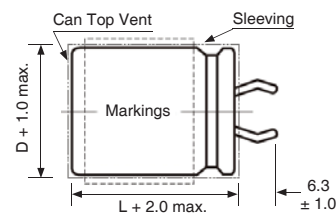
STANDARD VALUES AND SPECIFICATIONS

| NIC P/N | Case Size (mm) | Capacitance (F) | Voltage (VDC) | Max. Leakage Current @ 30 minutes (mA) | Max. ESR @ 1KHz (m Ω) | 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

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



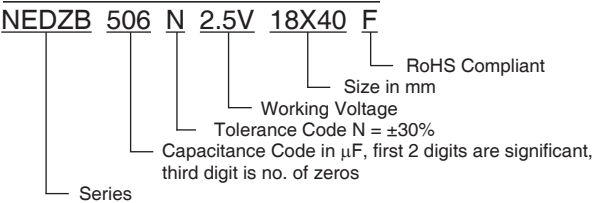
NIC COMPONENTS CORP. www.niccomp.com | www.lowESR.com | www.RFpassives.com | www.SMTmagnetics.com

SPECIFICATIONS ARE SUBJECT TO CHANGE

Radial Leaded & Snap-in Back-Up Capacitors

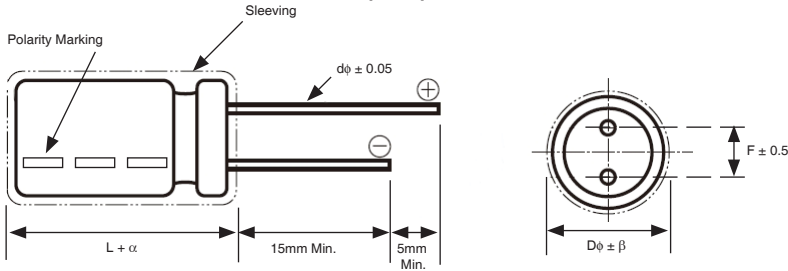
NEDZB Series

PART NUMBER SYSTEM



| Case Dia. (D ϕ) | 8 | 10 | 12.5 | 18 | 25 | 35 |
|-----------------------|------|------|------|------|------|------|
| Length (L) | 12.0 | 22.0 | 20.0 | 35.0 | 40.0 | 50.0 |
| Lead Space (F) | 3.5 | 5.0 | | 7.5 | - | - |
| Lead Dia. (d ϕ) | | 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)

