

# NIC PRODUCT PROFILE

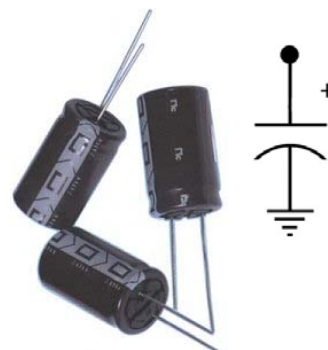
## NEDU series

Radial Leaded Power Back-up Electric Double Layer Capacitors



[www.niccomp.com/catalog/nedu.pdf](http://www.niccomp.com/catalog/nedu.pdf)

[www.niccomp.com/series/NEDU](http://www.niccomp.com/series/NEDU)



NIC Components is pleased to announce the addition of NEDU series of low ESR radial leaded electric double layer capacitors (EDLC) to its expanded EDLC capacitor products offering. The NEDU series features wide temperature operation from  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  (*derated operation above  $+65^{\circ}\text{C}$* ), and is suited for use in power boost, dying grasp and system back-up applications. With high energy storage (*10X ~ 100X higher than electrolytic capacitors*) the NEDU series provides boost energy to power circuits during periods of high load requirements and during time periods when system power or power outage has occurred. NEDU is offered in capacitance values from 1F to 33F (*1,000,000uF to 33,000,00uF*), with 2.7VDC voltage rating (*derated to 2.3VDC at  $+85^{\circ}\text{C}$* ) with high power performance advantage of low equivalent series resistance (ESR) down to 20 m $\Omega$  for high discharge current applications. Case sizes include 8.0 ~ 16.0mm diameters and 12mm ~ 31.5mm height. NEDU series is RoHS compliant and compatible with Pb-free wave soldering. Please contact NIC for samples and to review your requirements.

Specification: <http://www.niccomp.com/catalog/nedu.pdf>

### FEATURES & ADVANTAGES:

- Wide Temperature Range  $-40^{\circ}\text{C}$  ~  $+65^{\circ}\text{C}$  ( $+85^{\circ}\text{C}$  @ 2.3VDC)
- High Power And Low Internal Resistance
- Wide Operating Temperature  $-40\text{C}$  to  $+85\text{C}$  w/derating
- Low 1KHz ESR ( $\geq 20\text{m}\Omega$ ) and DCR ( $\geq 35\text{m}\Omega$ )
- Boost and High current applications
- High Capacitance 1F to 33 Farad
- Load Life Rated: 2.7VDC( $+65\text{C}$ ), 2.5VDC( $+85\text{C}$ ) 1000HRS
- Stable Temperature Characteristics
- Ideal As Power Supply Back-up

### Applications & End Products:

- Backup power sources
- Dying gasp circuits
- Start power for motors and drives
- Power boost circuits
- Memory backup for real time clock (RTC) circuits
- Smart metering & Green power

### Co-sell with NIC Products:



**NPIM\_B** – SMT Power Inductors  
Metal Composite Shielded; High Current - Low loss



**NCLS** – Current Sensing Resistors,  
Metal foil on ceramic, low cost, high pulse power

### → Cross the below competitor PNs

#### Competitor Series

Korchip DR

Nesscap ESHSR

Vinatech VEC

