Radial Leaded Back-Up Capacitors

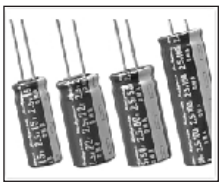
NEDU Series

FEATURES

- HIGH POWER AND LOW INTERNAL RESISTANCE
- HIGH CAPACITANCE (UP TO 33F)
- WIDE TEMPERATURE RANGE -40°C ~ +65°C (+85°C @ 2.3V)
- IDEAL AS POWER SUPPLY BACK-UP

RoHS Compliant
includes all homogeneous materials

*See Part Number System for Details

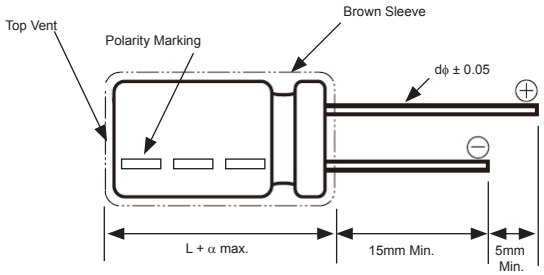


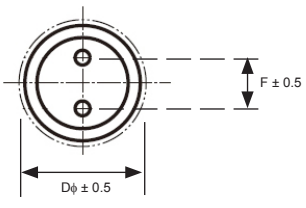
CHARACTERISTICS

Series		NEDU
Rated Voltage Range		2.7VDC
Rated Capacitance Range		1.00F ~ 33F (1,000,000µF ~ 33,000,000µF)
Operating Temp. Range		-40°C ~ +65°C (+85°C with voltage derated to 2.3V)
Capacitance Tolerance		+80%/-20% (Z)
Load Life Test	@ +65°C & 2.7V = 1,000 hours	Δ C = Less than ±30% of initial measured value
	@ +85°C & 2.3V = 1,000 hours	Max. ESR = Less than 300% of the specified max.
Temperature Characteristics +20°C → -40°C → +85°C		Δ C = Within +30% of 20°C value
		Max. ESR = Less than 300% of 20°C value
Damp Heat (Steady State) 500+24/-0 hours @ 40 ± 2°C, 90 ~ 95% RH		Δ C = Less than ±30% of initial measured value
		Max. ESR = Less than 300% of the specified max.
Shelf Life (no load)	@ 65°C 1,000 hours	Δ C = Less than ±30% of initial measured value
	@ 85°C 240 hours	Max. ESR = Less than 300% of the specified max. value

STANDARD VALUES AND SPECIFICATIONS

NIC P/N	Case Size (mm)	Capacitance (F)	Voltage Rating (VDC)	Max. Leakage Current After 24 Hours (mA)	Max. DCR (mΩ)	Max. ESR @ 1KHz (mΩ)
NEDU105Z2.7V8X12F	8.0x12.0	1.0	2.7	0.2	700	250
NEDU335Z2.7V8X20F	8.0x20.0	3.3	2.7	0.3	200	75
NEDU685Z2.7V10X20F	10.0x20.0	6.8	2.7	0.5	120	60
NEDU106Z2.7V10X30F	10.0x30.0	10	2.7	0.6	75	50
NEDU156Z2.7V12.5X25F	12.5x25.0	15	2.7	0.8	60	35
NEDU256Z2.7V16X25F	16.0x25.0	25	2.7	1.0	42	25
NEDU336Z2.7V16X31.5F	16.0x31.5	33	2.7	1.0	35	20





ϕD	8	10	12.5	16
F	3.5	5.0	5.0	7.5
ϕd	0.6			0.8
α	2.0			

UNITS: mm

PART NUMBER SYSTEM

NEDU 106 Z 2.7V 10x30 F

- F — RoHS Compliant
- 10x30 — Size in mm
- 2.7V — Working Voltage
- Z — Tolerance Code Z = +80%/-20%
- 106 — Capacitance Code in µF, first 2 digits are significant, third digit is no. of zeros
- NEDU — Series

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**