

FEATURES

- HIGH CAPACITANCE FOR POWER BACK-UP
- AVAILABLE IN HIGH VOLTAGE, SERIES CONNECTED MODULE* (TWO OR MORE DEPENDING ON VOLTAGE REQUIREMENT)
- SUITABLE FOR FLOW SOLDERING
- LEAD-FREE FINISH

**RoHS
Compliant**

includes all homogeneous materials



CHARACTERISTICS

Rated Voltage Range	5.0VDC	
Rated Capacitance Range	0.47F ~ 4.7F (470,000μF ~ 4,700,000μF)	
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	500% of 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)	Lead-Space (mm)	Capacitance (F)	Voltage (Vdc)	Max. Leakage Current (mA)	ESR @ 1KHz	
						Typ.	Max.
NEDZP474Z5V8.5X16AF	8.5X17X16	5.1	0.47	5.0	0.2mA @ 24 hours	600mΩ	2.0Ω
NEDZP474Z5V8.5X16BF		12.1					
NEDZP105Z5V8.5X24AF	8.5X17X24	5.1	1.0	5.0	0.3mA @ 24 hours	250mΩ	1.0Ω
NEDZP105Z5V8.5X24BF		12.1					
NEDZP155Z5V8.5X24AF	8.5X17X24	5.1	1.5	5.0	0.4mA @ 24 hours	250mΩ	1.0Ω
NEDZP155Z5V8.5X24BF		12.1					
NEDZP335Z5V10.5X34AF	10.5X21X34	5.5	3.3	5.0	0.8mA @ 24 hours	100mΩ	0.4Ω
NEDZP335Z5V10.5X34BF		15.5					
NEDZP475Z5V10.5X39AF	10.5X21X39	5.5	4.7	5.0	1.0mA @ 24 hours	80mΩ	0.4Ω
NEDZP475Z5V10.5X39BF		15.5					

*Contact NIC for information on ordering series connected, high voltage parts.



PART NUMBER SYSTEM

NEDZP 475 Z 5V 10.5X39 A F

Series | Capacitance Code in μF, first 2 digits are significant, third digit is no. of zeros | Working Voltage | Size in mm | Lead-space Option (see Standard Values and Specifications table) | RoHS Compliant

Tolerance Code Z = +80%/-20%

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



CASE DIMENSIONS (mm)

NIC P/N	DIMENSIONS (mm)				
	L max.	W $\pm$ 0.5	T $\pm$ 0.5	S	d
NEDZP474Z5V8.5X16AF	16.0	17.0	8.5	5.1	0.6
NEDZP474Z5V8.5X16BF				12.1	
NEDZP105Z5V8.5X24AF	24.0	17.0	8.5	5.1	0.6
NEDZP105Z5V8.5X24BF				12.1	
NEDZP155Z5V8.5X24AF	24.0	17.0	8.5	5.1	0.6
NEDZP155Z5V8.5X24BF				12.1	
NEDZP335Z5V10.5X34AF	34.0	21.0	10.5	5.5	0.6
NEDZP335Z5V10.5X34BF				15.5	
NEDZP475Z5V10.5X39AF	39.0	21.0	10.5	5.5	0.6
NEDZP475Z5V10.5X39BF				15.5	

