

FEATURES

- DOUBLE LAYER CONSTRUCTION
- RAPID CHARGE/DISCHARGE APPLICATIONS & ENERGY BACK-UP APPLICATIONS
- LONG LIFE (CHARGE/DISCHARGE CYCLES)
- ROHS COMPLIANT

RoHS Compliant
includes all homogeneous materials

*See Part Number System for Details



CHARACTERISTICS

Rated Voltage Range	2.7VDC	
Rated Capacitance Range	10F ~ 100F	
Operating Temp. Range	-25°C ~ +70°C (10F, 22F)	Less than $\leq 30\%$ of initial measured value
	-25°C ~ +60°C (50F, 100F)	
Capacitance Tolerance	$\pm 30\%$ (N) @ +20°C	
Load Life Test - 1,000 hours @+70°C (10F & 22F) @+60°C (50F & 100F)	Δ Capacitance Change	Less than $\leq 30\%$ of initial measured value
	Maximum ESR	Less than 200% of the specified maximum value
Temperature Cycling (5 cycles) -25°C ~ +70°C (10F & 22F) -25°C ~ +60°C (50F & 100F)	Δ Capacitance Change	Meet Initial Standard Value
	Δ Change in Internal Resistance (m Ω at 1KHz)	
Humidity Resistance 240 hours @ 40°C/90% RH (no load)	Δ Capacitance Change	Less than 20% of initial value
	Maximum ESR	Less than 120% of initial value

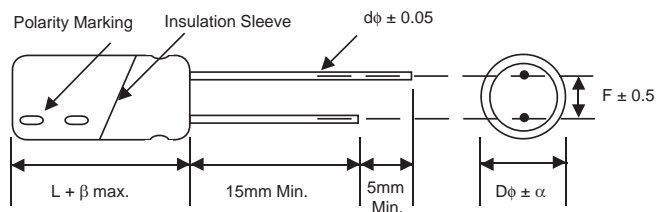
STANDARD VALUES AND SPECIFICATIONS

NIC P/N	Capacitance Value (F)	Rated Voltage (VDC)	Leakage Current @ after 30 min. (mA)	Max. ESR @ 1KHz (Ω)
NEDR106N2.7V10X35F	10	2.7	8	≤ 0.1
NEDR226N2.7V12.5X35F	22	2.7	18	≤ 0.1
NEDR506N2.7V18X40F	50	2.7	40	≤ 0.03
NEDR107N2.7V22X50F	100	2.7	81	≤ 0.03

Double Layer
Capacitor
Guide

CASE DIMENSIONS (mm)

NIC P/N	DIMENSIONS (mm)					
	D	H	S	d ϕ	α	β
NEDR106N2.7V10X35F	10.0	35.0	5.0	0.6	0.5	2.0
NEDR226N2.7V12.5X35F	12.5	35.0	5.0	0.8	0.5	2.0
NEDR506N2.7V18X40F	18.0	40.0	7.5	0.8	0.5	2.0
NEDR107N2.7V22X50F	22.0	50.0	10.0	1.0	0.5	2.0



LOW AND HIGH TEMPERATURE CHARACTERISTICS

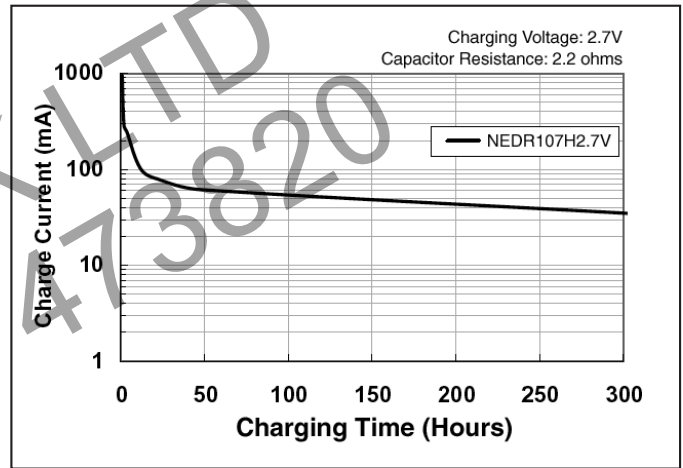
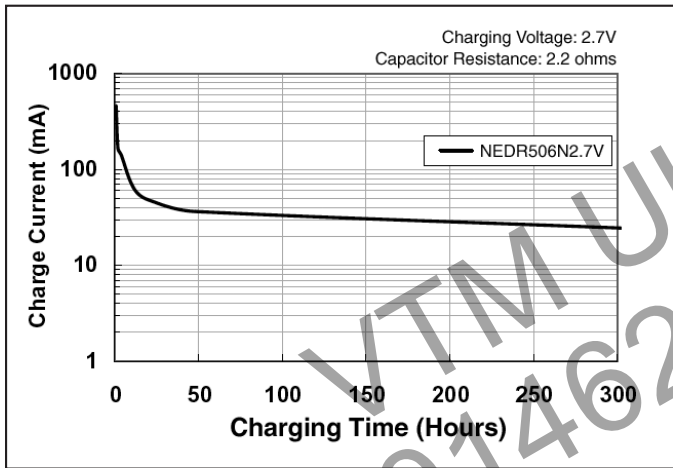
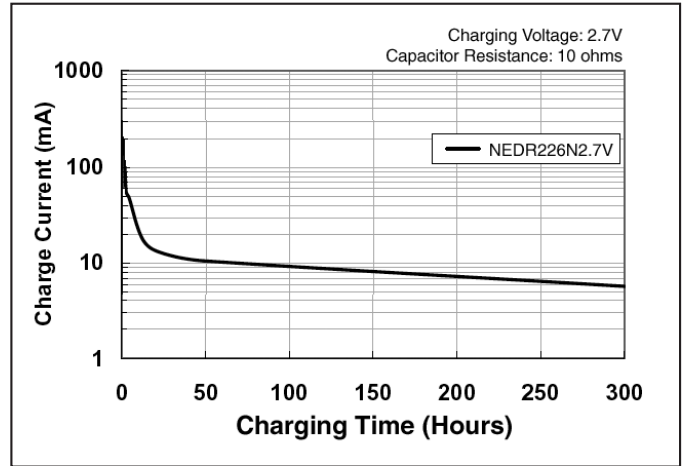
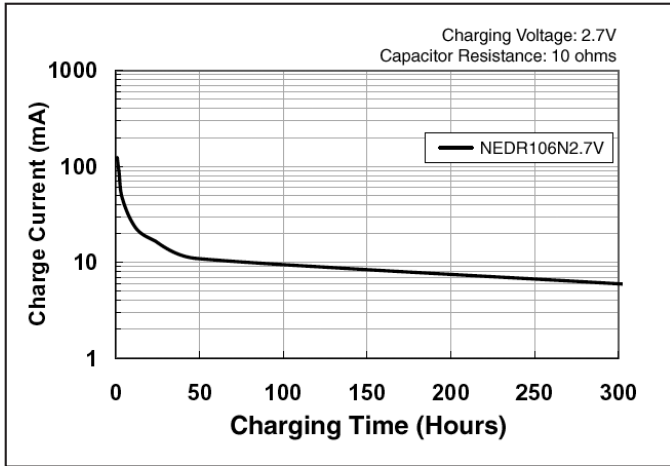
TEMPERATURE	CHARACTERISTIC	
-25°C	Capacitance	> 50% of initial value
	ESR	$\leq 400\%$ of initial value
+60°C (50F & 100F) +70°C (10F & 22F)	Capacitance	$\leq 150\%$ of initial value
	ESR	Not to exceed initial value

PRECAUTIONS

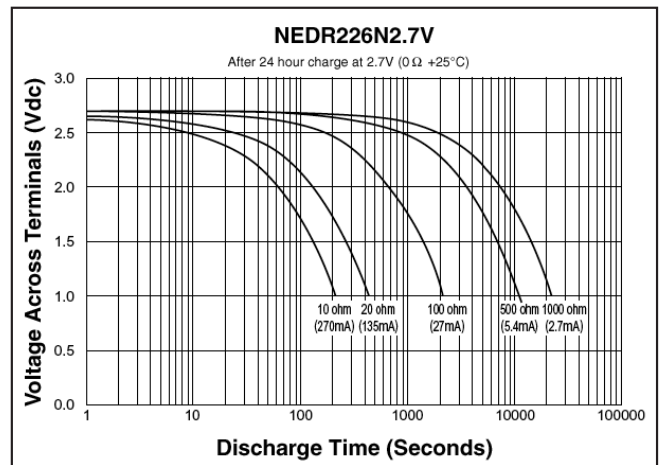
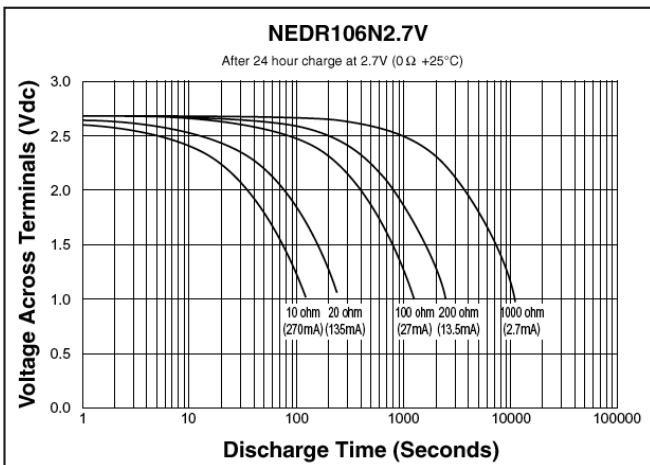
Please review the notes on correct use, safety and precautions at www.niccomp.com/precautions
If in doubt or uncertainty, please review your specific application - process details with NIC's technical support personnel: tpmg@niccomp.com



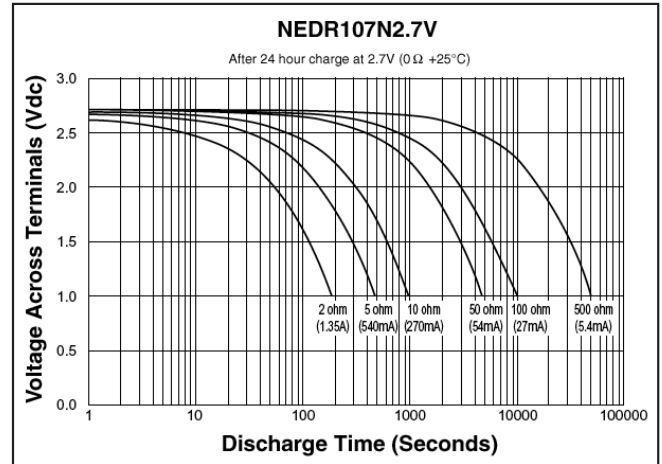
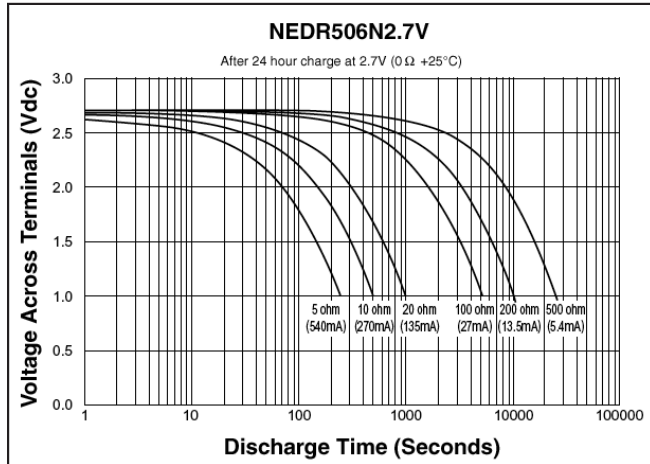
NEDR CHARGING CHARACTERISTICS



NEDR DISCHARGE CURRENT CHARACTERISTICS



NEDR DISCHARGE CURRENT CHARACTERISTICS



PACKAGE QUANTITY

NIC P/N	Bulk Package Qty
NEDR106N2.7V10X35F	800
NEDR226N2.7V12.5X35F	512
NEDR506N2.7V18X40F	360
NEDR107N2.7V22X50F	240

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