NIC Components Corp.

www.niccomp.com/pcn | Technical Support: tpmg@niccomp.com

January 14, 2013

SUB: EOL – End of Life Notification

Products Impacted by this notice:
NEDR series - Radial LDD Double Layer Capacitors

NIC Part Numbers: See below part number table;

REASON FOR CHANGE: Production resources allocated to produce alternate components
LAST ORDER DATE: (for established business; from existing customers): July 12th 2013

EOL Part Numbers	Capacitance	VDC	Size	Temp Range	Life Test Rating	Replacement Part Numbers	*Exceptions & Comments*
NEDR106N2.7V10X35F	10 F	2.7	10 x 35	-25°C ~ +70°C	1000 hours	**NEDZ106Z2.7V10X35F** **NEDZN106Z2.7V10X35F**	*Same Size, Temp & Life Ratings*
NEDR226N2.7V12.5X35F	22 F	2.7	12.5 x 35	-25°C ~ +70°C	1000 hours	**NEDZ206Z2.7V18X35F** **NEDZN206Z2.7V18X35F**	*20F, 18mm Dia replacements*
NEDR506N2.7V18X40F	50 F	2.7	18 x 40	-25°C ~ +60°C	1000 hours	**NEDZH506Z2.5V18X40F**	*Same Size, Temp & Life Ratings, in 2.5VDC*
NEDR107N2.7V22X50F	100 F	2.7	22 x 50	-25°C ~ +60°C	1000 hours	**NEDL107M2.5V22X65F** **NEDZ107Z2.5V25X50F** **NEDZH107Z2.5V25X50F** **NEDZN107Z2.5V25X50F**	*25mm Dia, 2.5VDC, with Temp upgrade*

Prepared by: Technical Product Marketing Group / tpmg@niccomp.com

➔Follow NIC PCN alerts to get email notifications of EOL and PCN announcements at www.niccomp.com/pcn

➔ See NIC ***QuickBuilder*** to select and compare alternates:
➔www.niccomp.com/quickbuilder/qb_capacitor.php?pType=double

Energy Back-Up Capacitors

NEDR Series

FEATURES

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

RoHS Compliant
includes all homogeneous materials

*See Part Number System for Details

CHARACTERISTICS

Rated Voltage Range	2.5 ~ 2.7VDC	
Rated Capacitance Range	1.0F ~ 200F	
Operating Temp. Range	-25°C ~ +70°C (1.0F ~ 10F)	
	-25°C ~ +60°C (22F ~ 200F)	
Capacitance Tolerance	±30% (N) @ +20°C	
Load Life Test - 1,000 hours @+70°C (1.0F ~ 10F) @+60°C (22F ~ 200F)	Δ Capacitance Change	Less than ≤ 70% of initial measured value
	Maximum ESR	Less than 200% of the specified maximum value
Temperature Cycling (5 cycles) -25°C ~ +70°C (1.0F ~ 10F) -25°C ~ +60°C (22F ~ 200F)	Δ Capacitance Change	Meet Initial Standard Value
	Δ Change in Internal Resistance (mΩ 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 150% of initial value

LOW AND HIGH TEMPERATURE CHARACTERISTICS

TEMPERATURE	CHARTERISTIC	
-25°C	Capacitance	> 70% of initial value
	ESR	≤ 500% of initial value
+60°C (22F & 200F) +70°C (1.0F & 10F)	Capacitance	≤ 200% of initial value
	ESR	Not to exceed 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)
NEDR105N2.7V8X12F	1.0	2.7	0.8	≤ 0.3
NEDR275N2.7V8X22F	2.7	2.7	2.2	≤ 0.3
NEDR475N2.7V10X20F	4.7	2.7	3.8	≤ 0.1
NEDR106N2.7V10X35F	10	2.7	8	≤ 0.1
NEDR226N2.7V12.5X35F	22	2.7	18	≤ 0.1
NEDR506N2.5V18X40F	50	2.5	40	≤ 0.05
NEDR107N2.7V25X50F	100	2.7	81	≤ 0.03
NEDR207N2.7V35X50F	200	2.7	162	≤ 0.03

PART NUMBER SYSTEM

NEDR 275 N 2.7V 8x22 F

- F — RoHS Compliant
- 8x22 — Size in mm
- 2.7V — Working Voltage
- N — Tolerance Code M = 20%
- 275 — Capacitance Code in µF, first 2 digits are significant, third digit is no. of zeros
- NEDR — Series

PRECAUTIONS

Please review the notes on correct use, safety and precautions found at
https://www.niccomp.com/resource/files/double/Double_Layer_Capacitor_Guide_0810-RevBrA7.pdf
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)						
	D	H	S	dϕ	α	β	Configuration
NEDR105N2.7V8X12F	8	12	3.5	0.6	0.5	2.0	Fig. 1
NEDR275N2.7V8X22F	8	22	3.5	0.6	0.5	2.0	Fig. 1
NEDR475N2.7V10X20F	10	20	5.0	0.6	0.5	2.0	Fig. 1
NEDR106N2.7V10X35F	10.0	35.0	5.0	0.6	0.5	2.0	Fig. 1
NEDR226N2.7V12.5X35F	12.5	35.0	5.0	0.8	0.5	2.0	Fig. 1
NEDR506N2.5V18X40F	18.0	40.0	7.5	0.8	0.5	5.0	Fig. 1
NEDR107N2.7V25X50F	25.0	50.0	10.0	-	1.0	5.0	Fig. 2
NEDR207N2.7V35X50F	35.0	50.0	10.0	-	1.0	5.0	Fig. 2

Figure 1

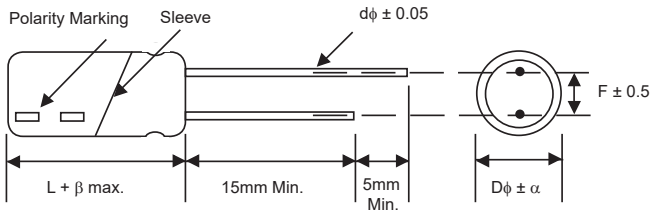
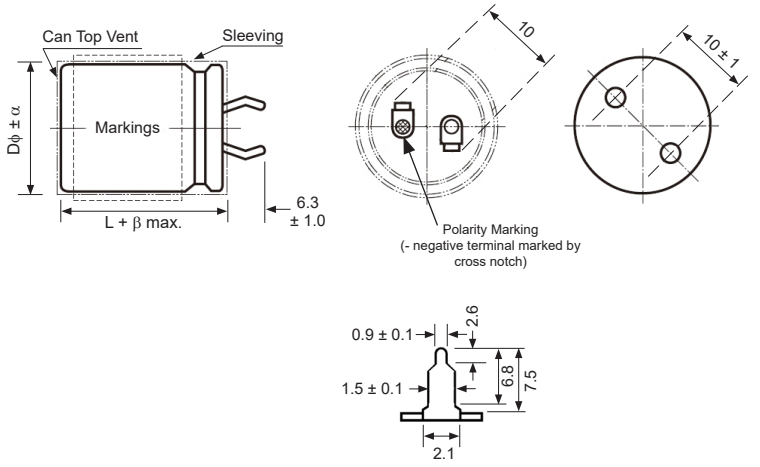
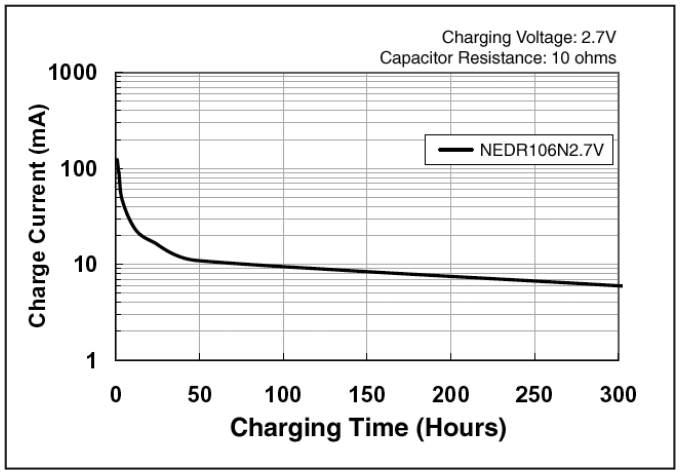
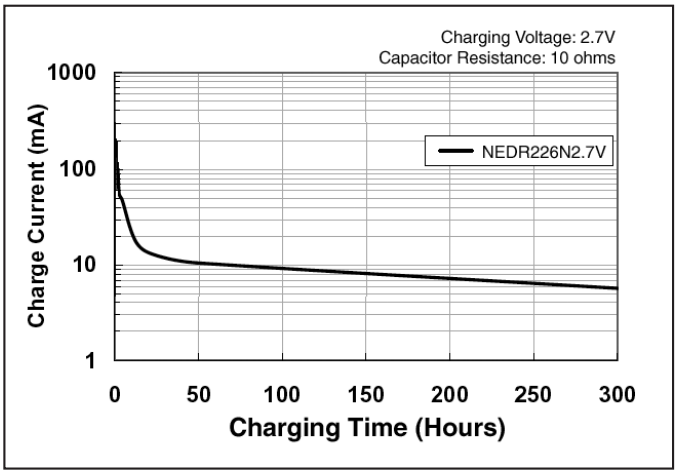


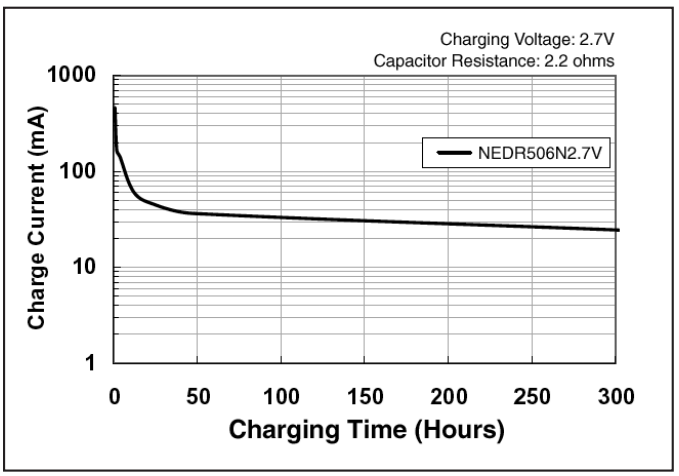
Figure 2

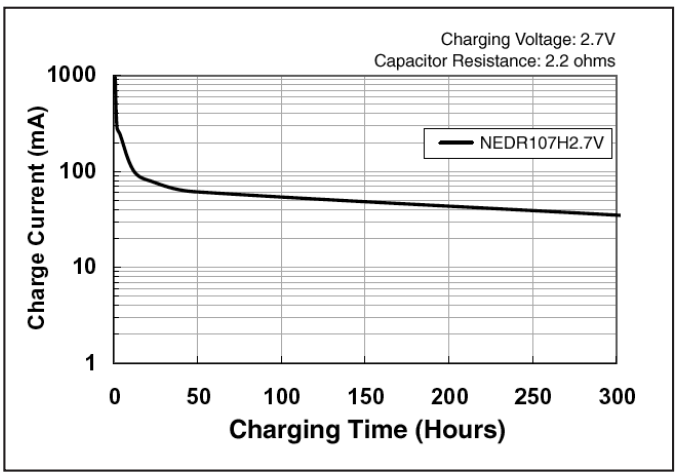


NEDR CHARGING CHARACTERISTICS

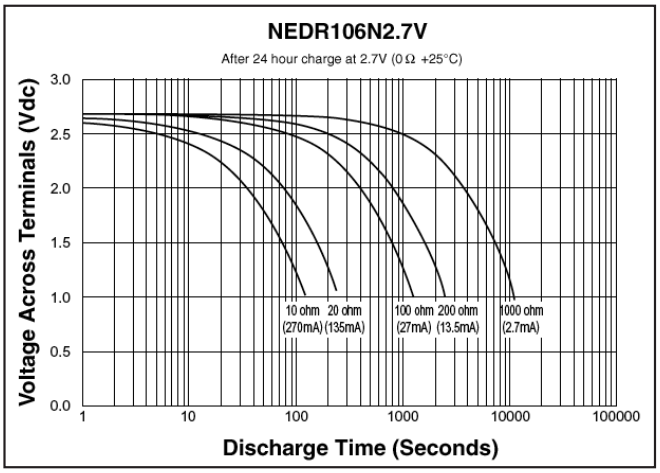


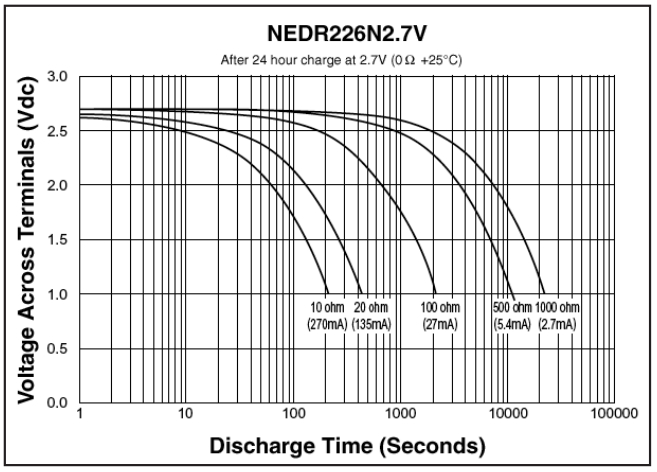






NEDR DISCHARGE CURRENT CHARACTERISTICS





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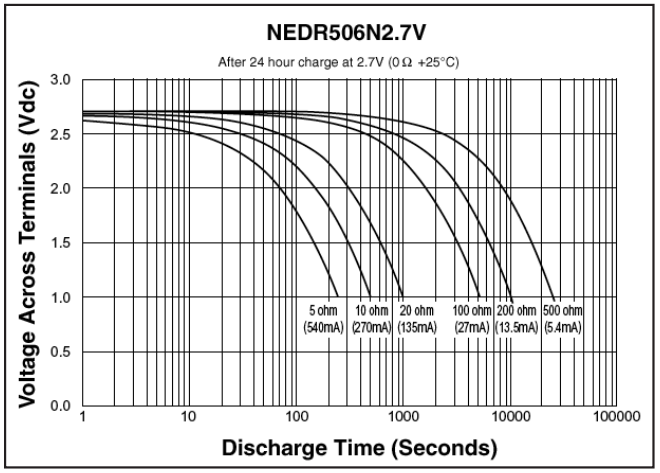

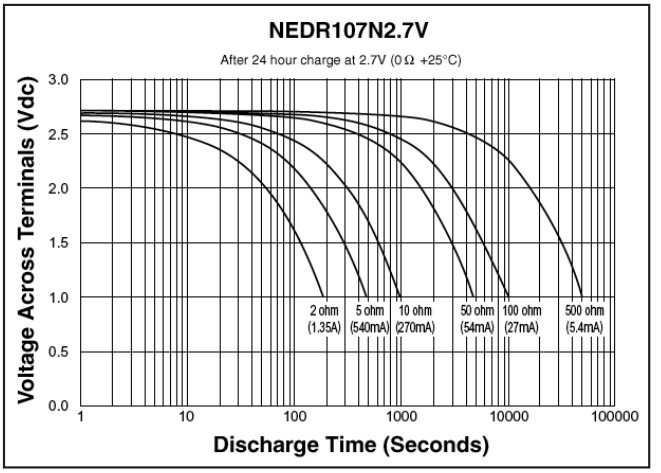

PACKAGE QUANTITY

NIC P/N	Bulk Package Qty
NEDR105N2.7V8X12F	
NEDR275N2.7V8X22F	
NEDR475N2.7V10X20F	
NEDR106N2.7V10X35F	800
NEDR226N2.7V12.5X35F	512
NEDR506N2.5V18X40F	360
NEDR107N2.7V25X50F	
NEDR207N2.7V35X50F	