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June 15th 2011

SUB: PCN – Product Change Notification

Product Type: SMT Power Inductors
NIC Series: NPI_C
Specification: www.niccomp.com/catalog/npi_c.pdf

THE FOLLOWING IS NOTICE OF SPECIFICATION CHANGE ON BELOW REFERENCED NIC COMPONENTS PRODUCTS.

EFFECTIVE: Immediately with transition completed September 1st 2011
REASON FOR CHANGE: Standardize construction to industry standards

1.) Reduction of operating temperature range

- Reduce Ambient Operating Temperature Range from +105°C to +85°C
- Reduce Maximum Component Temperature (Ambient + Self-Heating) from +145°C to +125°C
- Retain +40°C temperature rise at maximum I_{RMS} current

| Temperature Ranges | Legacy | New |
|--|----------------|----------------|
| Ambient Operating Temperature Range | -40°C ~ +105°C | -40°C ~ +85°C |
| Maximum Component Temperature (Ambient + Self-Heating) | -40°C ~ +145°C | -40°C ~ +125°C |

2.) Change in Inductance Value Test Frequency

- Test Frequency changed as shown in table below

| | Inductance Value Test Frequency | |
|-------------------|---------------------------------|--------|
| Inductance Values | Legacy | New |
| < 10uH | 7.96MHz | 100KHz |
| ≥ 10uH <100uH | 2.52MHz | 1KHz |



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3.) Change DC Resistance; DCR

| Case Size | PN | Inductance Value | Legacy DCR | New DCR |
|---------------------------|---------------|------------------|------------|-----------|
| 32 (3.5 x 3.0 x 2.1mm) | NPI32C221MTRF | 220 uH | 5.5Ω Max | 7.0Ω Max |
| | NPI32C271MTRF | 270 uH | 6.0Ω Max | 8.24Ω Max |
| | NPI32C331MTRF | 330 uH | 7.0Ω Max | 9.7Ω Max |
| | NPI32C391MTRF | 390 uH | 8.0Ω Max | 10.5Ω Max |

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

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