NIC Components Corp.

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# PRESS RELEASE: High Frequency Ceramic Capacitors

March 2010

## Featuring Low ESR, High Q and High Voltage (VDC) in small 0201, 0402 & 0603 case size, for use up to 3GHz

NIC Components has added **NMC-Q** series, temperature and voltage stable NPO ceramic chip capacitors to it's offering of multilayer ceramic chip capacitors (MLCCs). Offered in three miniature EIA case sizes; 0201, 0402 and 0603, with 25VDC ~ 250VDC voltage ratings. Capacitance range covers 0.1pF ~ 47pF in precision tolerances including ±0.05pF(A) and ±1%(F) tolerances. The High Q NPO dielectric exhibits no aging effects, stability under voltage and very low drift, making the NMC-Q series ideal for use in precision filtering, tuning networks, lumped element, bypass, RF coupling applications and impedance matching applications. Operating temperature range covers -55°C ~ +125°C. Free samples and sample kits are available. Unit pricing from $0.015 ~ $0.060 each in mass production volumes. Supplied tape and reel packaged for automated pick and placement. RoHS compliant & Halogen Free construction.

**NMC-Q Features:**

- High Q for RF Applications to 3GHz
- Stable NPO (COG) Characteristics Over Temperature And Voltage
- High Voltage (Up to 250VDC)
- Wide Temperature -55°C to +125°C
- EIA 0201, 0402 & 0603 Case Sizes
- Ideal For Wireless Communications Applications:
  - WLANs, HiperLAN, 802.11b/g/n, Wi-Fi, Bluetooth, Telematics, PCS, LMDS & Cellular
- Capacitance Range: 0.1pF ~ 47pF
- Capacitance Tolerance: ±0.05pF(A), ±0.1pF(B), ±0.25pF(C), ±0.5pF(D) ±1%(F), ±2%(G), ±5% (J)
- Operating Temperature Range: -55°C ~ +125°C
- Temperature Characteristics: 0 ± 30ppm/°C
- Rated Voltage: 25VDC, 50VDC, 100VDC & 250VDC
- Insulation Resistance @ Rated Vdc: 10,000 Meg-Ohm Min. @ +25°C
- Dielectric Withstanding Voltage (5 ± 1 Seconds): ≤100V = 250%, 250V = 200%
- Compatible With Pb-Free (Sac Alloy) Reflow Soldering Process: 100% Sn Finish Over Ni Barrier
- Substitute and replacement for Murata "GJ", AVX-Kyocera-ATC "ATC600" and JDI "S" and "C" series

NIC Technical Support:
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Specification Data Sheet:
www.niccomp.com/catalog/NMC-Q.pdf

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