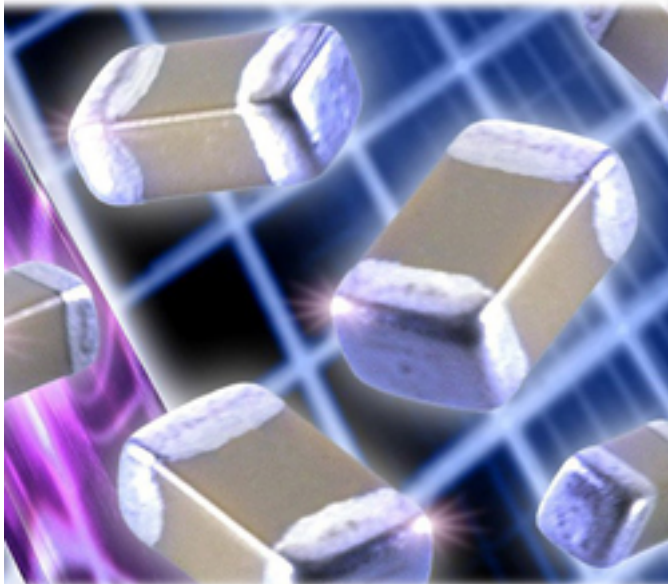


## High Frequency Ceramic Capacitors



NIC Components has added NMC-Q series, temperature and voltage stable NPO ceramic chip capacitors to its 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  $\pm 0.05\text{pF(A)}$  and  $\pm 1\%(F)$  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  $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ . 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  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
- 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:  $\pm 0.05\text{pF(A)}$ ,  $\pm 0.1\text{pF(B)}$ ,  $\pm 0.25\text{pF(C)}$ ,  $\pm 0.5\text{pF(D)}$   $\pm 1\%(F)$ ,  $\pm 2\%(G)$ ,  $\pm 5\%(J)$

Operating Temperature Range:  $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$

Temperature Characteristics:  $0 \pm 30\text{ppm}/^{\circ}\text{C}$

Rated Voltage: 25VDC, 50VDC, 100VDC & 250VDC

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Published on Electronic Component News (<http://www.ecnmag.com>)

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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: [tpmg@niccomp.com](mailto:tpmg@niccomp.com) [1] & [www.niccomp.com/support](http://www.niccomp.com/support) [2]

Specification Data Sheet: [www.niccomp.com/catalog/NMC-Q.pdf](http://www.niccomp.com/catalog/NMC-Q.pdf) [3]

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### Links:

[1] <mailto:tpmg@niccomp.com>

[2] <http://www.niccomp.com/support>

[3] <http://www.niccomp.com/catalog/NMC-Q.pdf>