

NIC PRODUCT PROFILE

NMC Series 01005 Size

Ultra Miniature MLCC Capacitors

DESCRIPTION:

NIC Components has added reduced case size "01005" (0.4mm x 0.2mm; LxW) to the NMC series of ceramic chip capacitors; MLCCs. 01005 case size is available in temperature stable NPO dielectric (0.1pF ~ 100pF in 16VDC rating) and high capacitance X5R dielectrics (100pF ~ 0.01uF in 6.3VDC & 10VDC ratings).



CHARACTERISTICS:

Temperature Range : -55°C ~ +125°C

Capacitance : .5pF ~ 100pF

Tolerance : ±1pf, ±.25pF, ±.5pF
±1%, ±2%, ±5%

Rated Voltage: 16Vdc

Size: 0.4mm x 0.2mm x .22mm

TRENDS:

Saving roughly 50% board space of larger 0201 size devices, the 01005 size are the smallest products NIC Components currently offers. 01005 size also features the lowest profile (0.22mm maximum thickness) for high-density SMT designs. Applications for the 01005 size include portable & hand-held products, communication and embedded devices.

APPLICATIONS for the 01005 size include:

- LCD Backlight
- GPS Equipment
- Point-Of-Sale
- Data Communication
- Power Management
- Portable & hand-held products
- Car Navigation
- Gaming
- Data Acquisition
- Embedded Devices
- Security & Alarm

Get full list of product series, datasheets, Technical Information, and Specification Selection Guides for all NIC Ceramic Capacitors @ <http://www.niccomp.com/ceramic>

Key Parameters - Substitutes & Selling Tips

+ MLCC Capacitors and Size Benefits

- Size - Saving roughly 50% board space of 0201 size devices, the 01005 size, measuring just 0.4 mm x 0.2 mm
- High Frequency Performance plus ultra small size are ideal candidates for hand held and data communication products

+ Solderability, Materials, and Packaging Benefits

- Feature a Matte Sn finish over Ni compatible with lead-free reflow soldering processes.
- All NMC series products are RoHS compliant.
- Supplied packaged on tape and reel (10,000 pieces per reel) for use with automated assembly processes.

[Visit www.niccomp.com for more information]

Available Capacitance Values
01005 Size @ 16Vdc

0.5pF	12pF
1.0pF	15pF
1.5pF	18pF
2.0pF	22pF
3.0pF	27pF
4.0pF	33pF
5.0pF	39pF
6.0pF	47pF
7.0pF	56pF
8.0pF	68pF
9.0pF	82pF
10pF	100pF

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