

**High Q - Low ESR
SMT NPO Ceramic
Chip Capacitors For
Wireless
Communication
Applications**

Featuring High Q
(Quality Factor) and low
ESR (Equivalent Series
Resistance) at

+125°C) ceramic provides stable characteristics over time,
temperature and voltage. Available in both small 0402 and 0603
case sizes, in capacitance values from 0.1pF ~ 22pF in 25VDC
and 50VDC voltage ratings. Ideal for both short and long
distance wireless data and voice communications applications:
WLANs, HIPERlan, 802.11a, 802.11b, Wi-Fi, Bluetooth,
Telematics, PCSs, LMDS and Cellular. **NIC Components
Corp., 70 Maxess Road, Melville, NY 11747; (631) 396-7500;
Fax: 631-396-7575; www.niccomp.com**

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**High performance Inductor range
expanded with addition of smaller
case sizes**

Passive component
specialist NIC has
expanded its NIN-H
range of surface
mount wirewound
chip inductors to
include 0603 and
0402 case sizes. The new devices are
notable for the high inductance values that
they offer in small case sizes.
NIN-H inductors have class leading
performance with high Q-Factors, high DC
current ratings and high Self Resonant
Frequencies (SRFs). They are ideal for use
in Wireless, WLAN, HyperLAN, Wi-Fi,
telematic and cellular communication
applications. The range of inductance
values available is 6.8nH to 56nH for 0402
case size devices, and 3.3nH to 220nH for
0603 case sizes. A tolerance rating of
+/-5% applies to both. 0402 and 0603 case
size NIN-H Inductors have an operating
temperature range of -40°C to +85°C
making them suitable for use in a wide range
of applications. NIN-H wirewound chip
inductors are supplied in embossed plastic
tape packaging for automatic pick and place
procedures. The new 0402 and 0603 case
sizes are suitable for reflow soldering.



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**Radio Frequency (RF) Wireless
Designers Kit**



New RF designer's
kit from NIC
Components Corp
contains common
value - size
capacitors, inductors

and resistors based upon compiled review of
high frequency applications: Wireless,
WLANs, HiperLAN, 802.11a, 802.11b, Wi-Fi,
Bluetooth, Telematics, PCS, LMDS and
Cellular. Kit contains 14 capacitor values, 6
inductor values, 12 resistor values; 32 values
totaling 660 pcs.
Available directly from NIC or through global
sales channel - distributors.

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**Surface mount
capacitors
provide long-
life operation
in high
temperature,
high density
applications**

The newly introduced NACHL series of
SMT aluminum electrolytic capacitors from
NIC Components Corp. feature extended life
at high temperature. NACHL capacitors are
available with voltage ratings of between
10VDC and 100VDC and capacitance values
that range from 0.47uF to 330uF. High
temperature load-life rating of 5000 hours at
their upper operating temperature of +105°C
makes them ideal for high operating
temperature applications or extended life
operation. Case sizes (D x L) range from
4mm x 6.1mm to 10mm x 10.5mm
depending on voltage and capacitance values
selected. NACHL capacitors are supplied
tape and reel packaged for use with
automatic insertion manufacturing
equipment. All parts are available with an
optional lead-free finish.

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RF Passives



NIC's family of RF passive components meet the requirements of high frequency RF -
wireless, telecomm and datacomm applications and aid in the design and
manufacturing of products with more features, in smaller and less expensive formats.

● **SMT Magnetics:**

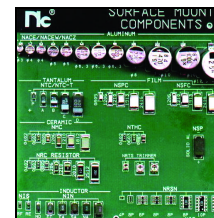
- 0201, 0402, 0603, 0805, 1008, 1812 Chip Inductors
- Spiral Cut / Monolithic Chip - Multilayer / Wire Wound / Open Frame Chip / Molded Case
- High Impedance / High Current Ferrite Chip Beads
- Monolithic Chip - Multilayer / Low Cost EMI Suppression / High Current (up to 5.0A DCI)

● **High Q / Low ESR NPO Ceramic Chip Capacitors**

- 0402 / 0603 size / Low Cost MLCC Construction
- High Q / Low ESR / Ultra-stable NPO dielectric

● **Radio Frequency (RF) Wireless Designers Kit**

- Common Capacitors, Resistor and Inductors sizes - values for High Frequency Designs



www.niccomp.com

www.RFpassives.com

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