

NIC PRODUCT PROFILE

NTL Series

Ultra-small SMT Chip Inductors

DESCRIPTION:

Ultra miniature (0201 ~ 0603) surface mount thin film chip inductors with high Q-factor over a wide frequency range. Thin film construction features precision tolerances, stable characteristics and high DC current ratings. Etched copper coil on an alumina substrate.

CHARACTERISTICS:

Temperature Range : -40°C ~ +125°C

Inductance : 1.0nH ~ 100nH

Inductance Tolerance : ±.1nH, ±.2nH, ±2%

Quality Factor: Typical > 40 @ 2GHz

Self Resonant Frequency: 1.0 ~ 10 GHz

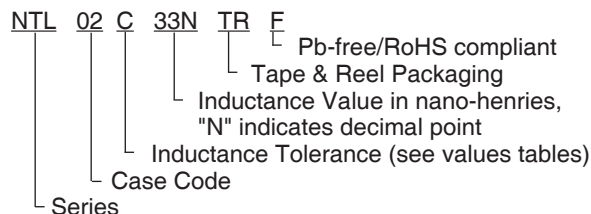
TRENDS:

The growth of telecommunications and digital equipment with higher operating frequencies, the reduction in size of handheld and portable products, and embedded subsystems are fueling demand for ultra-small devices including 0201 size devices. This should result in increasing demand for high precision, temperature stable NTL type thin film inductors

APPLICATIONS:

- Telecommunications
- RF/Wireless Systems
- WLAN / Wi-Fi / Bluetooth / WiMax
- High Speed Data

PART NUMBERING SYSTEM:



Competition

Cyntec

Murata

KOA

Panasonic

Taiyo Yuden

TDK

TOKO

Vishay

Replace

TFL

LQG, P, W

KL73

ELJ-NK, ELJ-RE

HK1608, HK1005, HK0603

MLG

LL, LLP, LLV

ILC-0603, IMC-0402

[Visit www.niccomp.com FULL Cross Reference List]

Key Parameters - Substitutes & Selling Tips

+ NTL SERIES ADVANTAGES

- Precision Tolerance ±.1nH, ±.2nH
- Low Cost
- High DCI (DC Current Rating)
- High SRF (self resonant frequency)
- Low Profile & Ultra-small size

+ 0603 has highest Q (>40 @ 2GHz), 0201 has lowest Q
+ 0402 has highest DCI

[Visit www.RFpassives.com For Performance Data]



NIC Specification Data Sheet @

<http://www.niccomp.com/catalog/ntl.pdf>

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