

NIC PRODUCT PROFILE

NCC Series

SMT Common Mode Choke for EMI Suppression

Features

- High Common Mode Impedance (Z) at High Frequencies
- Shielded Providing Excellent Noise Suppression
- Suitable For High Speed Digital Equipment (USB/IEEE)
- Pb-Free Construction
- Low Profile Surface Mount Package
- Both Flow and Reflow Soldering Applicable

Product Family: EMI Suppression Magnetics

Desc: Surface Mount (SMT) Common Mode Choke for EMI Suppression

NIC Specification Data Sheet: <http://www.niccomp.com/Catalog/ncc.pdf>

CHARACTERISTICS:

Temperature Range : -40°C~+125°C (voltage derated above 105°C)

Withstanding Voltage : 125VDC for 30 seconds

Impedance Range : 30 ~ 2,200Ω

Impedance Tolerance : ±25% @ 100Mhz

Temperature Cycling : ±25% of initial value after 10 cycles
(-40°C/+20°C/+125°C/+20°C)

Sizes (mm) : 2.0 x 1.2 x 1.2 (0805)
3.2 x 1.6 x 2.0 (1206)

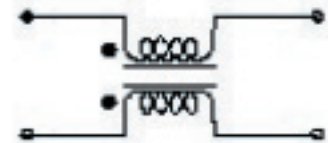
∴ Suitable For High Speed Digital Equipment (USB/IEEE)

NCC Advantages:

- With the introduction of USB 2.0 from USB 1.1, data rates increased in frequency, resulting in noise. To eliminate the noise on these new, high speed systems, a component that can eliminate the noise, without filtering out the true signal, is now required
- As a solution the NCC common mode chokes reduces the noise while maintaining the integrity of the signal



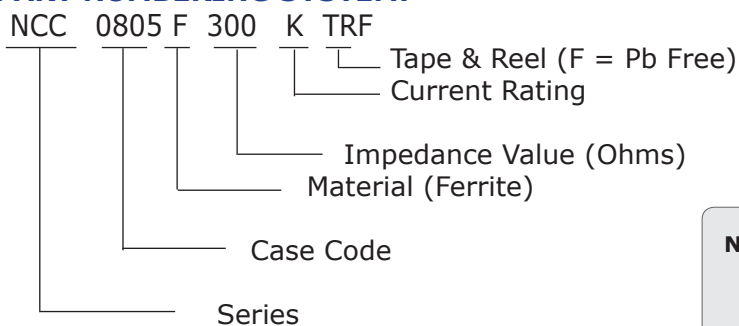
CIRCUIT SCHEMATIC



APPLICATIONS:

- LCD Monitors/TVs
- Keyboards
- Multi Function Printers
- Mass Storage Peripheral
- Server Front Panels
- Portable Media Player
- USB Hub Boxes
- USB Port expansions
- PC Mother Boards
- Desktop PC Drive Bays
- Set Top Boxes
- DVD/HDD Recorder
- Mobile PC Docking Stations
- Multi Function Flash Drive
- PoS Equipment
- Industrial & Automotive Kiosks

PART NUMBERING SYSTEM:



Competition

Various
Murata
TDK
TOKO

Replace

Ferrite Chip Beads
DLW Series
ACM Series
NT2012 Series

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