

PRODUCT PROFILE

NCB-A series NCB-HA series

SMT Automotive Grade Ferrite Chip Beads



- AEC-Q200 qualified, suitable for use in automotive applications
- Low cost EMI suppression
- -55°C to +125°C operating temperature rated
- NCB-HA series provide higher current rated (up to **6A**) in 1206, 1806 and 1812 sizes
- Small case sizes include 0201, 0402, 0603, 0805, 1206 in both series
- Impedance values from 10 ohm to 2700 ohm at 100MHz
- RoHS complaint
- +260°C reflow rated

NIC Components Corp, a leading global supplier of electronic components, today introduced the two new series of SMT ferrite chip beads. NCB-A and NCB-HA series meet the requirements of AEC-Q200 for use in automotive, high reliability enterprise level systems, and harsh environment applications.

Ferrite beads provide a low-cost solution to suppression of EMI in electronics systems. EMI within automotive subsystems can impact the vehicle intercommunication network, integrated cockpit systems, sensors - modules, security and access, infotainment and media circuits.

Sources of electromagnetic interference (EMI) internal to the automotive systems include noise, crosstalk, radiated and conducted emissions caused by DC motors used in climate, wipers, seats, window subsystems, and harmonics from clocks used in digital circuits. External sources can include EMI generated from power transients, radio frequency interference (i.e., Bluetooth, Wi-Fi, GPS, etc.), electrostatic discharge, and power line electric and magnetic fields.

The NCB-A and NCB-HA series combined include more than 230 part number combinations in components case sizes ranging from 0201 to 1812, 100MHz impedance values from 10 ohm to 2700 ohm, and DC current ratings up to 6A. Operating temperature range is -55degC to +125degC. NCB-A and NCB-HA series are rated for +260degC reflow and are RoHS and REACH compliant and produced from halogen-free materials.

→ Contact NIC Components today for free samples or to review your circuit requirements

- 📄 Product Specifications: www.niccomp.com/products/catalog/ncb-a.pdf
- 📄 Product Specifications: www.niccomp.com/products/catalog/ncb-ha.pdf

NCB-H & NCB-HA Cross-Reference:

Murata	BLM....H series
TDK	MMZ series
Würth	WE-CBA series

- NIC Technical Support: tpmg@niccomp.com
- NIC **Quick Builder**: https://www.niccomp.com/QuickBUILDER/qb_emi.php