

NEW!

Common Mode Choke 1812CANbus



- Designed for common mode noise suppression on CAN or CAN FD in automotive or general industrial automation applications
- Can be used for FlexRay automotive bus system
- 50% lower DCR and higher current handling than other CANbus chokes in the market
- Filters a broad frequency range of common mode noise
- Low profile 1812 footprint: 4.95 × 3.18 × 3.0 mm

Core material Ferrite**Environmental** RoHS compliant, halogen free**Weight** 120 – 130 mg**Terminations** RoHS compliant matte tin over nickel over silver-palladium-glass frit.**Ambient temperature** –40°C to +125°C with Irms current.**Storage temperature** Component: –40°C to +125°C.

Tape and reel packaging: –40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles**Moisture Sensitivity Level (MSL)** 1 (unlimited floor life at <30°C / 85% relative humidity)**Failures in Time (FIT) / Mean Time Between Failures (MTBF)**

38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

Packaging 600/7" reel; 2200/13" reel; Plastic tape: 12 mm wide, 0.30 mm thick, 8 mm pocket spacing, 3.05 mm pocket depth**PCB washing** Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCBt_Washing.pdf](#).

Part number ¹	Inductance ² ±30% (µH)	DCR max ³ (Ohms)	Irms ⁴ (mA)
1812CAN-113NR_	11	0.27	430
1812CAN-223NR_	22	0.40	360
1812CAN-513NR_	51	0.59	300
1812CAN-104NR_	100	0.80	200

1. When ordering, please specify **packaging** code:**1812CAN-104NRC****Packaging:** **C** = 7 machine-ready reel. EIA-481 embossed plastic tape (600 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).**D** = 13 machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (2200 parts per full reel).

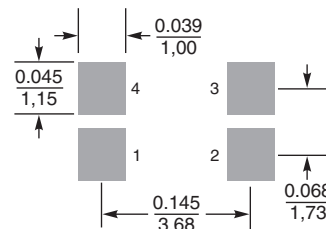
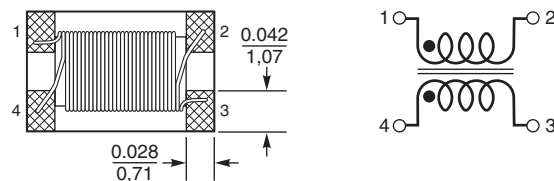
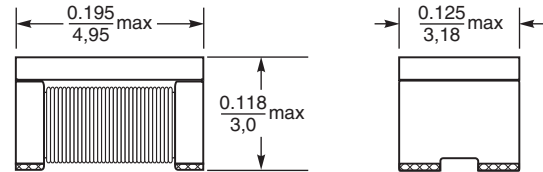
2. Inductance is per winding, measured at 100 kHz, 0.1 Vrms, 0 Adc using an Agilent/ HP 4263B LCR meter and a Coilcraft CCF 1113 fixture.

3. DCR is specified per winding, measured at on a Keithley 580 micro-ohmmeter and a Coilcraft CCF 888 fixture.

4. Max current that may be applied at +125°C

5. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

**Recommended Land Pattern**Dimensions are in $\frac{\text{inches}}{\text{mm}}$ 

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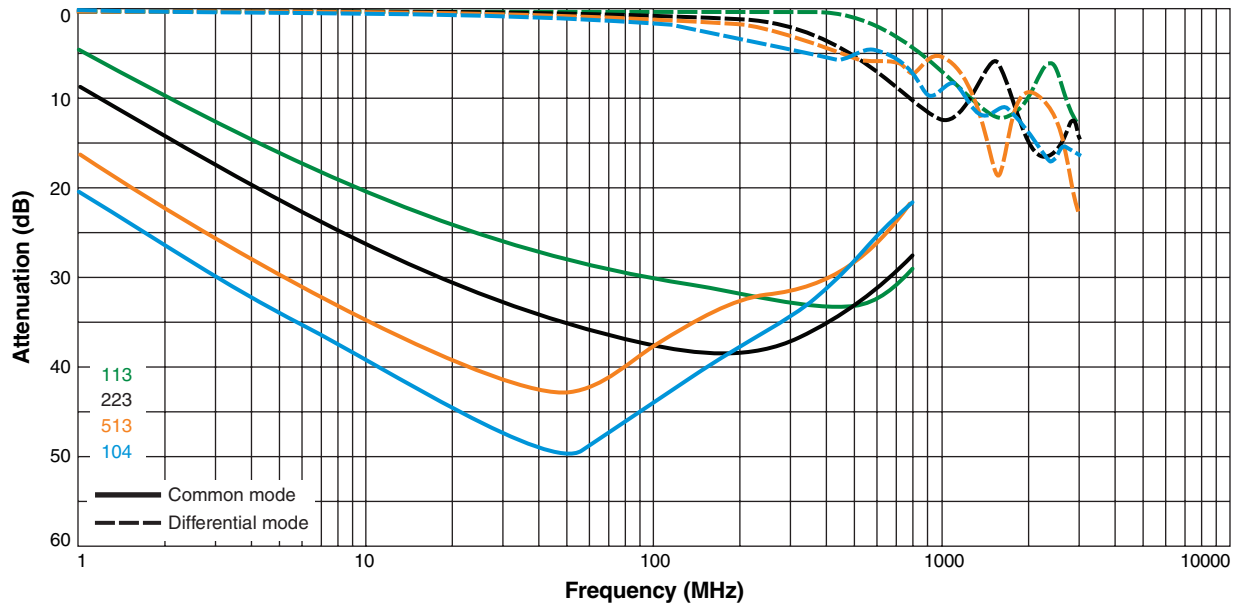
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This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.

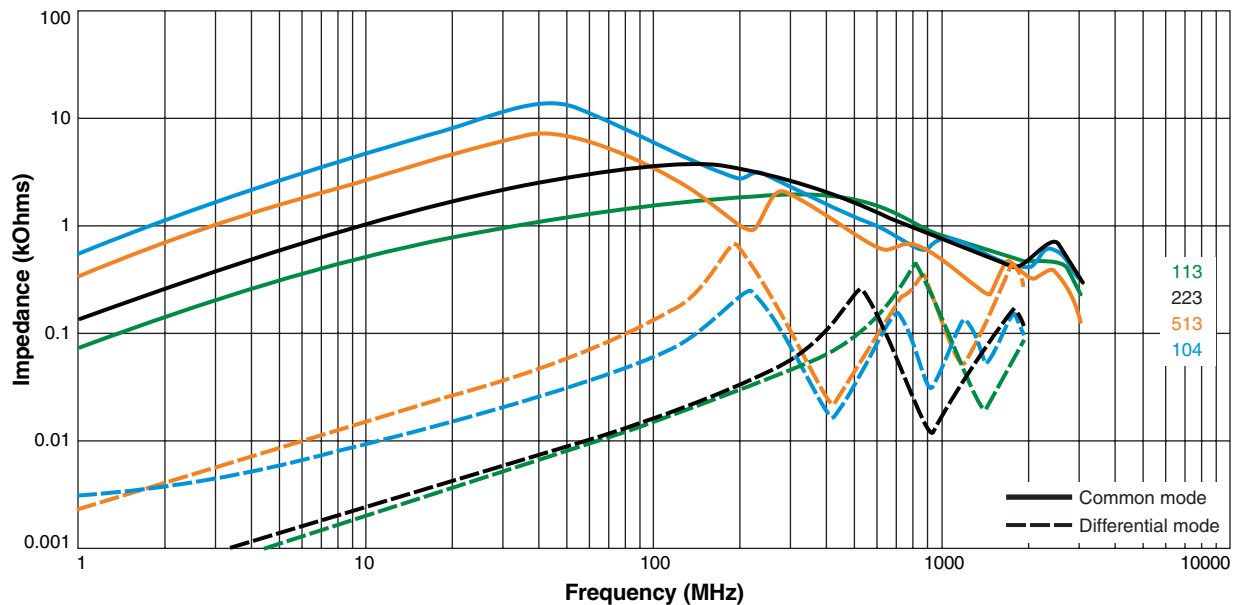


Common Mode Choke – 1812CANbus

Typical Attenuation (Ref: 50 Ohms)



Typical Impedance vs Frequency



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