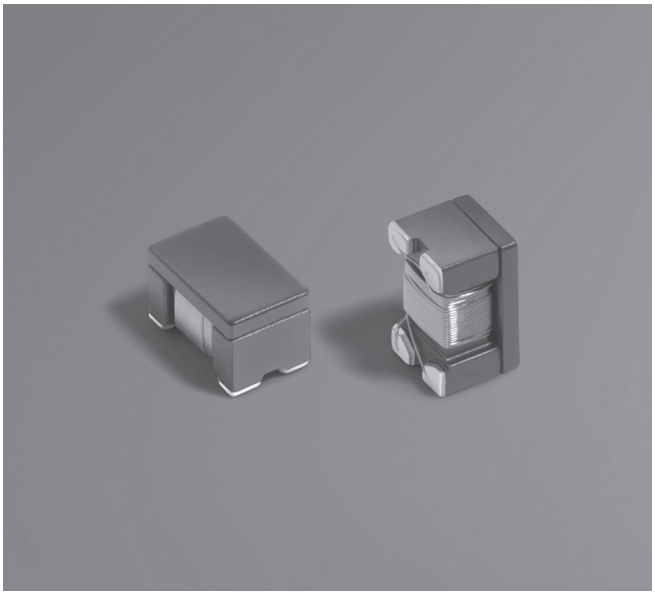
NEW!

Common Mode Choke 1812CANbus

RoHS/ REACH COMPLIANT

Halogen Free

AEC Q200 +125°C



- 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.
Maximum Part Temperature +150°C
Storage temperature Component: –40°C to +150°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
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

Part number[1]	Inductance[2] ±30% (µH)	DCR max[3] (Ohms)	Isolation[4] (Vrms)	Irms[5] (mA)
1812CAN-113NR_	11	0.27	250	460
1812CAN-223NR_	22	0.40	250	400
1812CAN-513NR_	51	0.59	250	300
1812CAN-104NR_	100	0.80	250	260

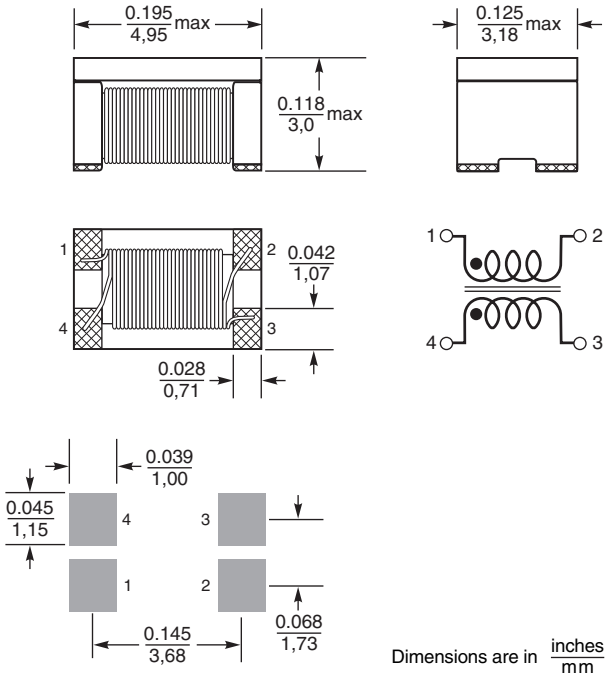
1. When ordering, please specify **packaging** code:

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. Winding to winding isolation (hipot) tested for one minute.
5. Current per winding that causes a 25°C rise from +125°C ambient.
6. Electrical specifications at 25°C.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.



Recommended Land Pattern

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

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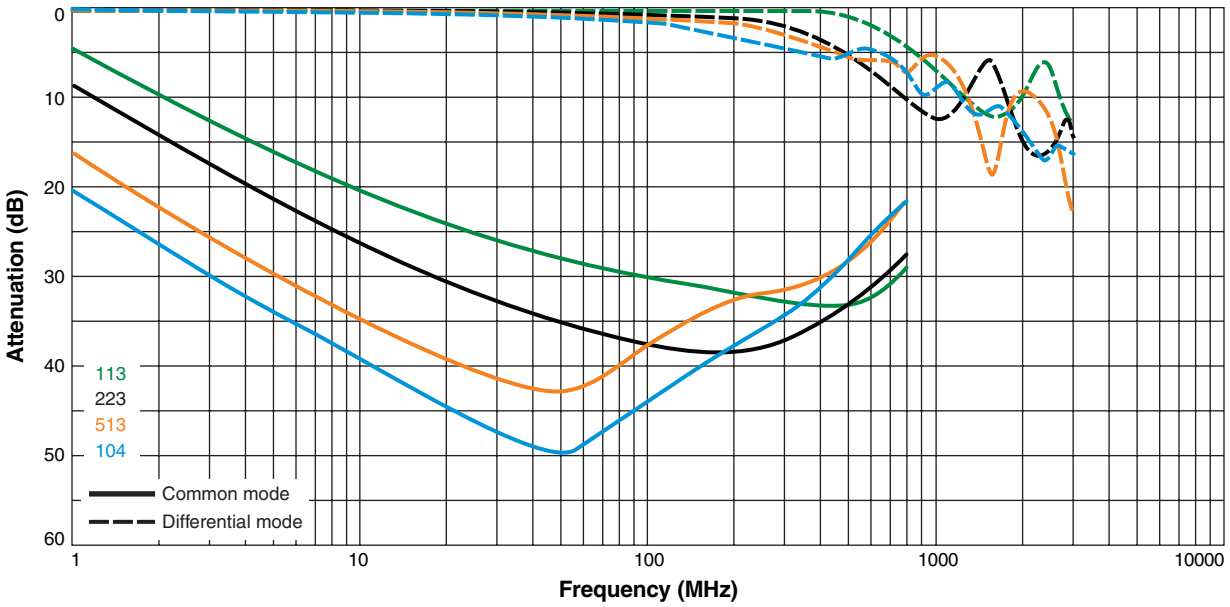
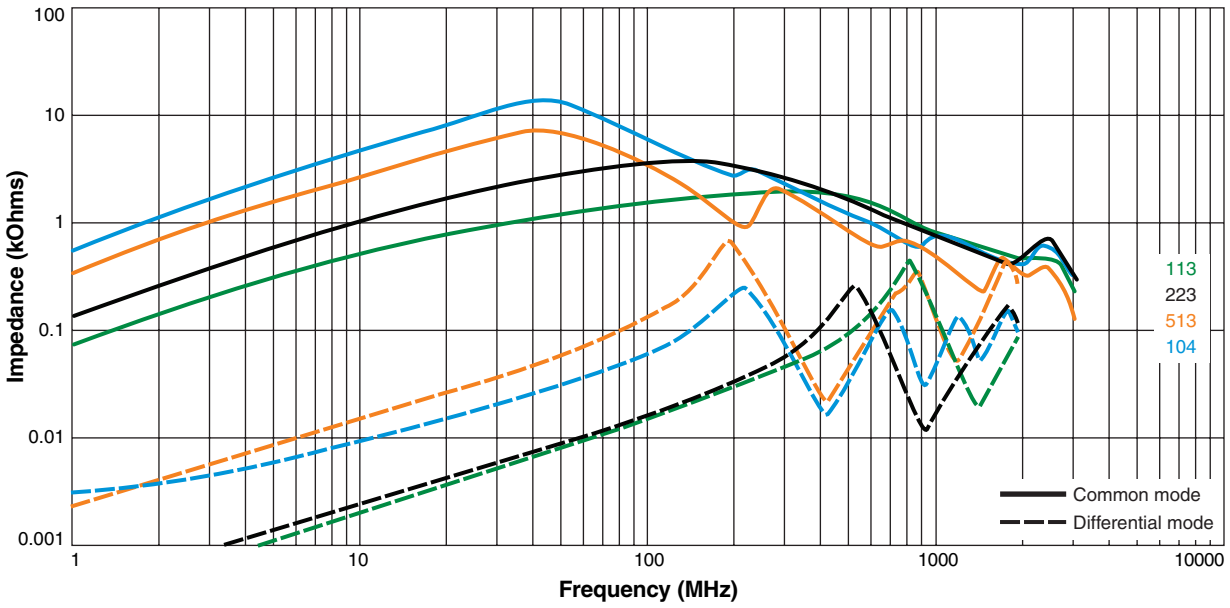
Typical Attenuation (Ref: 50 Ohms)



Typical Impedance vs Frequency



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