Ultra Low Profile Common Mode Choke 0805

For noise suppression in super high speed signal lines: USB 3.x, HDMI 2.0, HDBaseT™, DisplayPort, DVI, etc.; and in high speed differential signal lines: USB 2.0, IEEE1394, LVDS, etc.

Up to 6.5 GHz differential mode 3 dB cutoff frequency; up to 35 dB common mode noise attenuation in GHz range

Lowest profile 0805 common mode choke – 0.93 mm tall

Core material: Ferrite
Environmental: RoHS compliant
Terminations: Matte tin over nickel over silver-palladium-glass frit.
Weight: 9.0 – 13.0 mg
Ambient temperature: −40°C to +125°C with Irms current.
Maximum part temperature: 140°C
Storage temperature: Component: −40°C to +140°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)

Packaging:
- 2000/7” reel: 7500/13” reel: Plastic tape: 8 mm wide, 0.23 mm thick, 4 mm pocket spacing, 1.07 mm pocket depth

1. When ordering, please specify packaging code:
   - 0805USBN-222MR
   - Package: C = 7” machine-ready reel. EIA-481 embossed plastic tape (2000 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).
   - B = Less than full reel. In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to C.
   - D = 13” machine-ready reel. EIA-481 embossed plastic tape (7500 parts per full reel).

2. Frequency at which the differential mode attenuation equals −3 dB
3. Inductance measured at 100 MHz using an Agilent/HP 4286A impedance analyzer and a Coilcraft SMD-A fixture.
4. DCR is specified per winding.
5. Winding to winding isolation (hipot) tested for one minute.
6. Current per winding that causes a 15°C rise from 25°C ambient.
7. Electrical specifications at 25°C.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.
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Typical Attenuation (Ref: 50 Ohms)

Typical Impedance vs Frequency