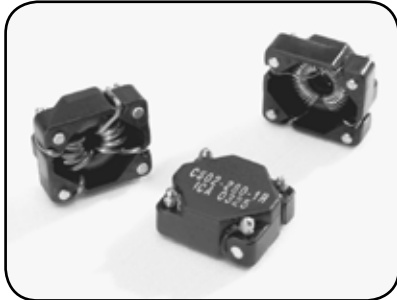


CS02 Series Common Mode Choke



Features

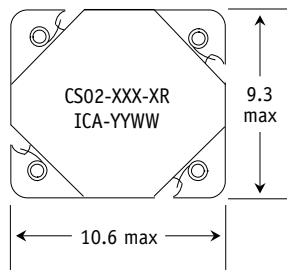
- Filters common mode noise over a broad frequency range
- Small footprint
- Current range up to 7.5 A
- For use from 300 kHz to 100 MHz

Applications

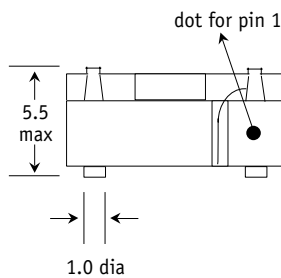
- EMI Filters
- High Density Power Supplies
- “Brick” DC/DC Converters
- Point of Load DC/DC Converters

Packaging Reel diameter: 13”, Reel width: 16 mm, Pieces/reel: 700

Mechanical

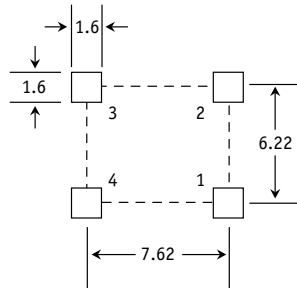


Top view



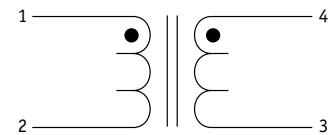
Side view

Recommended PCB Layout



Top View

Schematic



units: mm

Electrical Specifications

| Part Number | Inductance ¹ (μ H typ.) | Inductance ¹ (μ H min.) | I_{rms} ² (A max.) | DCR ($m\Omega$ max.) | Hi-Pot ³ (V _{rms}) | Max. Impedance (typ.) |
|-------------|--|--|------------------------------------|--------------------------|--|--------------------------|
| CS02-280-1R | 37.3 | 28 | 2.80 | 25 | 2500 | 561 @ 10MHz |
| CS02-470-1R | 63 | 47 | 1.33 | 63 | 2500 | 1010 @ 8MHz |
| CS02-470-2R | 63 | 47 | 3.40 | 20 | 500 | 1300 @ 8MHz |
| CS02-710-2R | 94.7 | 71 | 2.69 | 27 | 500 | 1490 @ 8MHz |
| CS02-131-2R | 176 | 130 | 1.65 | 60 | 500 | 2900 @ 7MHz |
| CS02-231-2R | 312 | 230 | 0.89 | 145 | 500 | 5150 @ 6MHz |

1. Inductance measured at 100 kHz, 0.1 V_{rms}, series.
2. I_{rms} : Temp. rise = 40°C at rated RMS current.
3. Hi-pot rating: Winding to winding for 1 minute.
4. Electrical specifications at 25°C.
5. Operating temperature range: -40°C to +155°C.
6. Meets UL94V-0.
7. Creepage Distance:
2500 Vrms hi-pot = 4 mm
500 Vrms hi-pot = 0 mm.



IMPEDANCE VS. FREQUENCY

