



# Common Mode Choke

# CS02 Series



### Features

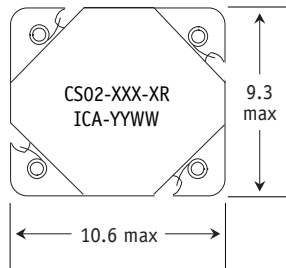
- Filters common mode noise over a broad frequency range
- Small footprint
- Current range up to 7.5 A
- For use from 300 kHz to 100 MHz

### Applications

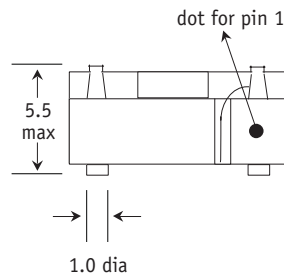
- EMI Filters
- High Density Power Supplies
- “Brick” DC/DC Converters
- Point of Load DC/DC Converters

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

### Mechanical

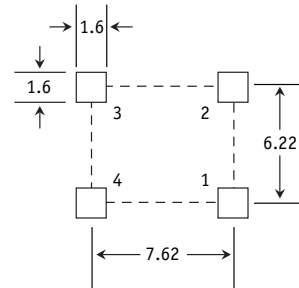


Top view



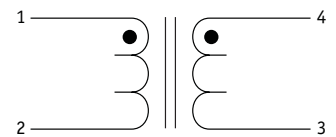
Side view

### Recommended PCB Layout



Top View

### Schematic



units: mm

### Electrical Specifications

Part Number	Inductance <sup>1</sup> (μH typ.)	Inductance <sup>1</sup> (μH min.)	I <sub>rms</sub> <sup>2</sup> (A max.)	DCR (mΩ max.)	Hi-Pot <sup>3</sup> (V <sub>rms</sub> )	Max. Impedance (typ.)
CS02-280-1R	37.3	28	2.80	26	2500	561 Ω @ 10MHz
CS02-470-1R	63	47	1.33	77	2500	1010 Ω @ 8MHz
CS02-470-2R	63	47	3.40	18	500	1300 Ω @ 8MHz
CS02-710-2R	94.7	71	2.69	23.4	500	1490 Ω @ 8MHz
CS02-131-2R	176	130	1.65	67	500	2900 Ω @ 7MHz
CS02-231-2R	312	230	0.89	166	500	5150 Ω @ 6MHz

1. Inductance measured at 100 kHz, 0.1 V<sub>rms</sub>, series.
2. I<sub>rms</sub>: 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 V<sub>rms</sub> hi-pot = 4 mm, 500 V<sub>rms</sub> hi-pot = 0 mm.



## IMPEDANCE VS. FREQUENCY

