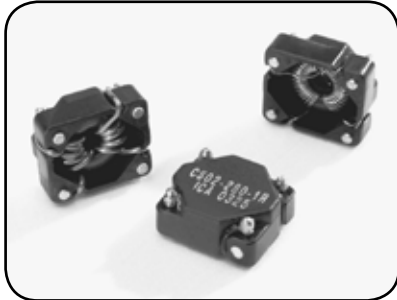


CS02 Series Common Mode Choke



Features

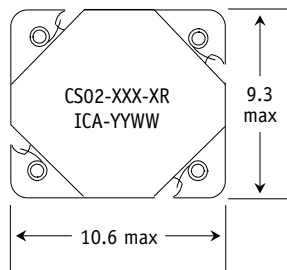
- Filters common mode noise over a broad frequency range
- Small footprint
- Current range up to 7.5 A
- For use from 300 kHz to 100 MHz

Applications

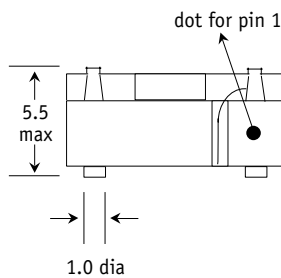
- EMI Filters
- High Density Power Supplies
- “Brick” DC/DC Converters
- Point of Load DC/DC Converters

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

Mechanical

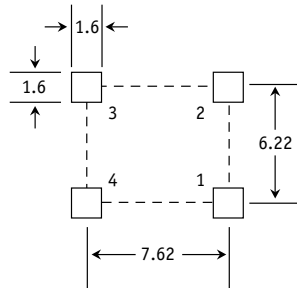


Top view



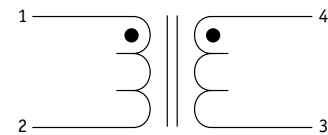
Side view

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

