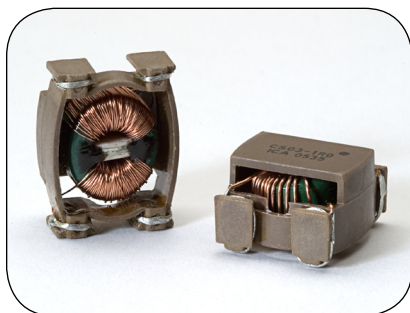


## Common Mode Choke

## CS03 Series



### Features

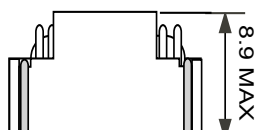
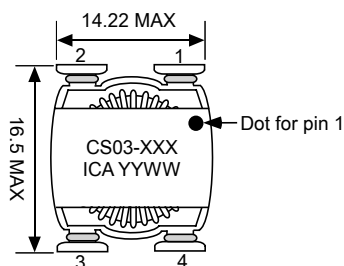
- Magnetically Shielded uses Toroid core
- Low Profile, SMT Design
- High Current
- Rated Voltage 250VAC

### Applications

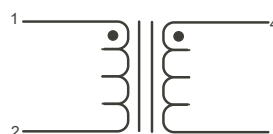
- DC/DC Converters
- DC/AC Inverters for Inductor Applications
- Telecom Converters

**Packaging:** Reel Diameter: 13", Reel Width: 32mm, Pieces/Reel: 350

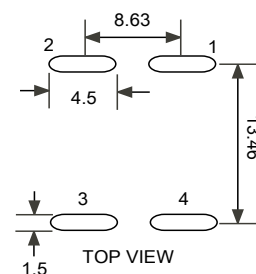
### Mechanical



### Schematic



### Recommended PCB layout



units: mm

### Electrical Specifications

| Part Number | Inductance <sup>1</sup><br>(mH) | Leakage Inductance <sup>2</sup><br>(μH Max.) | DCR max<br>(mΩ) | I <sub>rms</sub> <sup>5</sup><br>(A) | SRF<br>(MHz Typ.) | Hi-Pot<br>(V <sub>rms</sub> ) |
|-------------|---------------------------------|----------------------------------------------|-----------------|--------------------------------------|-------------------|-------------------------------|
| CS03-1R0    | 1.0                             | 5.00                                         | 60              | 1.5                                  | 2                 | 3kV                           |
| CS03-100    | 10.0                            | 45.00                                        | 450             | 1.0                                  | 0.5               | 3kV                           |
| CS03-220    | 22.0                            | 85.00                                        | 850             | 0.5                                  | 0.29              | 3kV                           |
| CS03-460    | 46.2                            | 130.00                                       | 1100            | 0.4                                  | 0.17              | 3kV                           |

1. Tested at 10kHz, 0.1V<sub>rms</sub>.
2. Tested at 100kHz, 1.0V, (1-2) with (3-4) shorted.
3. Electrical specifications at 25 deg C.
4. Operating range: -40°C to +130°C. This is a combination of ambient plus temperature rise.
5. I<sub>rms</sub> is the AC current required to produce a temperature rise of 40°C at an ambient temperature of 25°C.
6. Inductance tolerance is +/-30%.
7. Meets UL 94V-0.



IMPEDANCE VS. FREQUENCY

