



Current Sense Transformer CT02 Series



Features

- Smallest Footprint
- Hi-Pot tested at 1,500 VAC
- Current Ratings to 18A
- Patent Pending

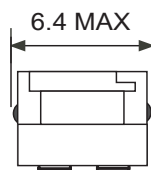
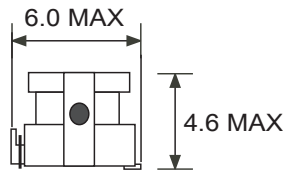
Applications

- DC/DC Converters
- AC/DC Converters
- POL Converters

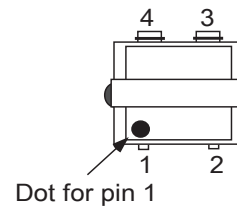
Packaging: Reel diameter: 13", Reel width: 16mm, Pieces/reel: 1000

Mechanical

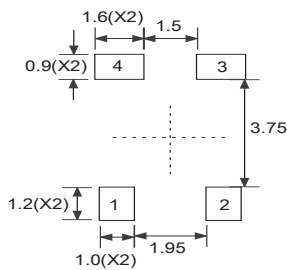
Side View



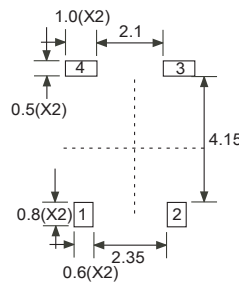
Top View



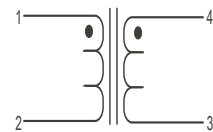
Recommended PCB layout



Footprint



Schematic



units: mm

Electrical Specifications

| Part No. | Turns Ratio | E-T Product (V-μs) | Ls ¹ (mH, min.) | Rs ² (Ω, max.) | Current Rating ⁵ (A) | Hi-Pot (V _{AC}) |
|----------|-------------|-----------------------|-------------------------------|------------------------------|------------------------------------|------------------------------|
| CT02-050 | 1:50 | 4.0 | 0.44 | 0.85 | 15.0 | 1500 |
| CT02-100 | 1:100 | 8.0 | 1.8 | 4.8 | 18.0 | 1500 |
| CT02-150 | 1:150 | 12.0 | 4.0 | 15.0 | 18.0 | 1500 |
| CT02-200 | 1:200 | 16.0 | 7.1 | 25.0 | 18.0 | 1500 |
| CT02-250 | 1:250 | 20.0 | 11.1 | 37.2 | 18.0 | 1500 |

Notes:

1. Tested at 10kHz, 0.1Vrms.
2. Electrical specifications at 25°C.
3. Operating range: -40°C to +130°C. This is a combination of ambient plus temperature rise.
4. Meets UL 94V-0.
5. DC current through primary, plus turns-ratio-divided DC current through secondary winding, to cause a 40°C temperature rise at 25°C ambient.
6. All products are RoHS-compliant.

