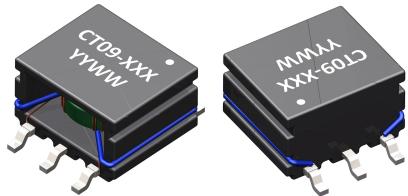


# CT09 Series

## SMT Current Sense Transformers



### FEATURES

- 9.2 mm Creepage
- 8.0 mm Clearance
- Primary Rated for 6A
- Optimized for Frequencies from 10kHz to 800kHz
- Full Selections of Turns Ratios
- Suitable for pick-and-place applications

### APPLICATIONS

- DC/DC Converters
- AC/DC Converters

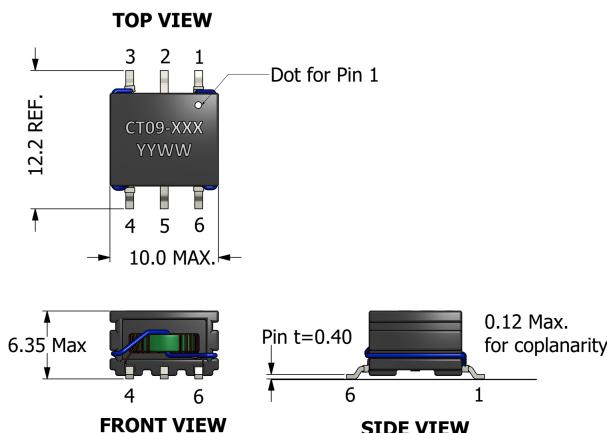
### PACKAGING

Reel Diameter: 13"

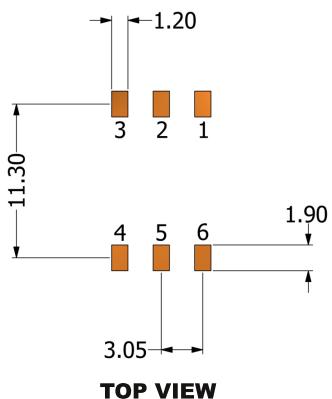
Reel Width: 24mm

Pieces Per Reel: 500

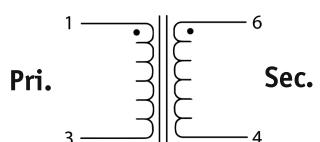
### Mechanical Drawing



### Recommended PCB Layout



### Schematic



Unit: mm

### Electrical Specifications

Part Number	Turns Ratio (Pri:Sec)	Ls <sup>1</sup> (μH, min.)	DCR <sup>2</sup> (Pri:Sec) (mΩ, max.)	Pri. Current Rating(A)	E-T Prod. <sup>4</sup> (V-μs)	Hi-Pot <sup>5</sup> (V <sub>AC</sub> ) (Pri:Sec)
CT09-020	1:20	160	6:120	6.0	31	3750
CT09-040	1:40	640	6:430	6.0	63	3750
CT09-060	1:60	1400	6:1300	6.0	95	3750
CT09-080	1:80	2500	6:1700	6.0	127	3750

### Notes:

1. Tested at 10kHz, 0.1Vrms (Terminals 6-4).
2. Electrical specifications at 25°C.
3. Operating range: -40°C to +130°C.
4. E-T product rating is for (6-4) windings and is based upon flux density of 3700 Gauss at 25°C in a bipolar drive applications.
5. Tested at 60Hz, 1mA, 1 second.
6. Meets UL 94V-0.



Specifications subject to change without prior notice.

# Mouser Electronics

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[CT09-020](#) [CT09-060](#)