

CT05 Series Current Sense Transformer



FEATURES

- Full Selection of Turns Ratios
- Primary Current (Ip) Rated for 25A
- Frequency Range up to 500kHz
- Compact Package

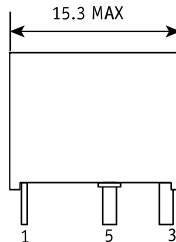
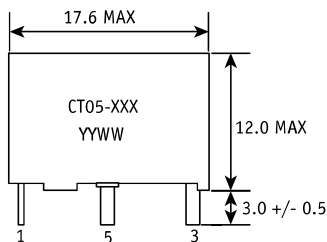
APPLICATIONS

- DC/DC Converters
- AC/DC Converters

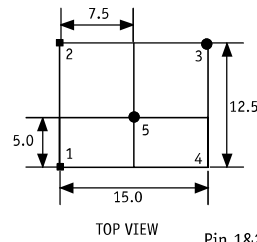
PACKAGING

- Pcs/Tray: 121
- Trays/Box: 10
- Pcs/Box: 1210

Mechanical Dimensions in mm

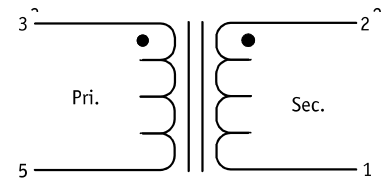


Footprint



Pin 1&2: sq. 0.5
Pin 3&5: dia. 1.2

Schematic



Electrical Specifications

Part Number	Turns Ratio (Np:Ns)	Sec. Ls ¹ (mH, min.)	Sec. DCR (Ω, max.)	ET ⁵ (V-μS max.)	S.R.F ⁶ (kHz)	Hi-Pot
CT05-050	1:50	4.7	0.50	175	600.0	4,000
CT05-100	1:100	18.0	2.0	350	250.0	4,000
CT05-200	1:200	76.0	4.5	700	50.0	4,000
CT05-500	1:500	470	16.0	1750	17.0	4,000
CT05-1000	1:1000	1900	50.0	3500	7.5	4,000

1. Tested @ 10kHz, 0.1Vrms
-1000 tested @ 1kHz, 0.1Vrms
2. Electrical specifications at 25°C.
3. Operating temperature range: -40°C to +130°C.
4. Meets UL 94V-0.
5. ET rating is based on a bipolar waveform
6. Self-resonant frequency (S.R.F) for reference only

Output Voltage and ET Rating Formulas

Rb (Ω): Terminating Resistance
F (Hz): Freq
Es (V): Output Voltage
ET rating is based on a bipolar waveform

$$Es = I_p * R_b / N_s$$

$$ET = Es * 1/2F$$



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