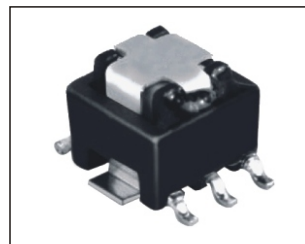


SMT CURRENT SENSE TRANSFORMERS

FEATURES:

- Working Frequency range:50KHz~1MHz
- Testing Frequency: 10 KHz 0.1Vrms
- Hipot:2000VAC,Primary to Secondary
- Maximum Sensing Current: 20A
- All secondary measurements are in pins 1-3
- Soldering methods: Wave, Reflow



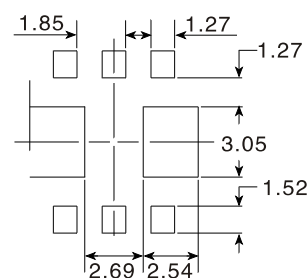
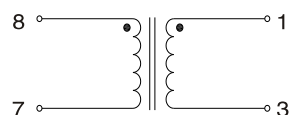
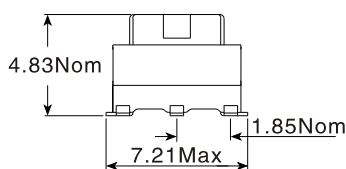
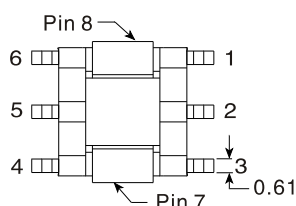
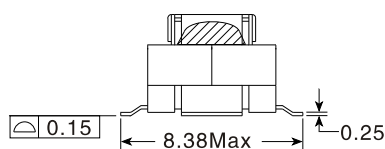
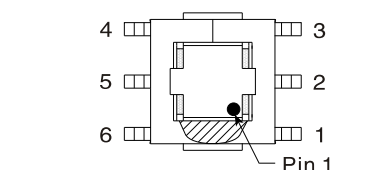
Electrical Specifications @ 25°C — Operating Temperature -40°C to +130°C

Part No.	Turns Ratio	Current Rating ² (A)	Secondary inductance (mH)Min	DCR(mΩ Max)		Hi-Pot (Vrms)
				Primary (8-7)	Secondary (1-3)	
CTE05020	1:20	20	0.08	0.75	550	500
CTE05030	1:30	20	0.18	0.75	870	500
CTE05040	1:40	20	0.32	0.75	1140	500
CTE05050	1:50	20	0.50	0.75	1500	500
CTE05060	1:60	20	0.72	0.75	2250	500
CTE05070	1:70	20	0.98	0.75	4750	500
CTE05100	1:100	20	2.00	0.75	5500	500
CTE05125	1:125	20	3.00	0.75	6500	500

NOTES:

1. The temperature of component (ambient temperature plus temperature rise) must be within the specified operating temperature range.
2. The maximum current rating is based upon temperature rise of the component and represents the DC current which will cause a typical temperature rise of 40°C with no airflow when both one turn windings connected in parallel.
3. To calculate value of terminating resistor (Rt) use the following formula: $R_t (\Omega) = V_{ref} * N / (I_{peak_primary})$
4. The peak flux density of the device must remain below 2000 Gauss. To calculate the peak flux density for uni-polar current use following formula: $B_{pk} = 37.59 * V_{ref} * (Duty_Cycle_Max) * 105 / (N * Freq_kHz)$ for bi-polar current applications divide Bpk (as calculated above) by 2

MECHANICAL & SCHEMATIC:



NOTE:

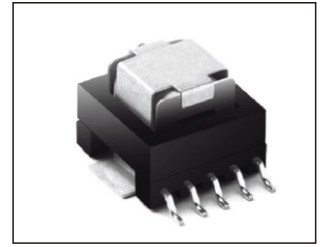
for RoHS compliant part, the height is increased to: 5.10Nom & 5.5Max

Unless otherwise specified, all tolerances are ± 0.25

SMT CURRENT SENSE TRANSFORMERS

FEATURES:

- Height: 10mm Max
- Footprint: 19.9mm X 15.0mm Max
- Frequency range: 50KHz to 500KHz
- Current rating: up to 35A
- Operating temperature: -40°C to +130°C



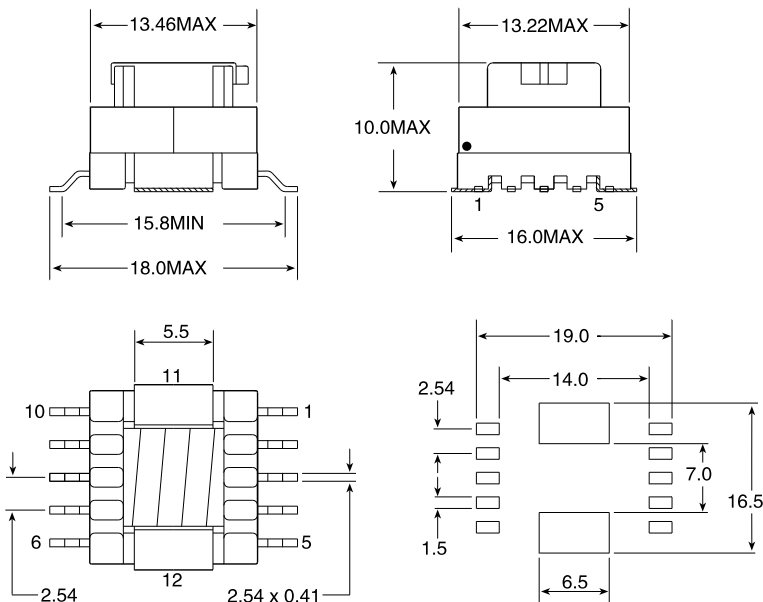
ELECTRICAL CHARACTERISTICS:

Part Number	Turns ratio	Sec. Inductance (mH) 10KHz,0.1V	DCR (mΩ)Max		Hi-Pot (Vrms)
			Pri	Sec	
CTE12-050	1:50	1.4 min.	0.42	700	500
CTE12-100	1:100	5.6 min.	0.42	1400	500
CTE12-200	1:200	22.4 min.	0.42	2900	500

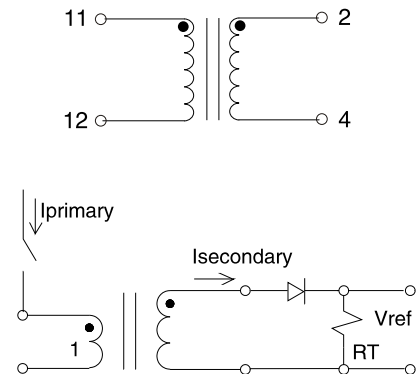
1. The temperature of component (ambient temperature plus temperature rise) must be within the specified operating temperature range.
2. The maximum current rating is based upon temperature rise of the component and represents the DC current which will cause a typical temperature rise of 40°C with no airflow when both one turn windings connected in parallel.

PHYSICAL CHARACTERISTICS & WINDING

Dimension: mm



Unless otherwise specified, all tolerances are $\pm 0.25\text{mm}$



APPLICATION CIRCUIT

Weight..... 4.7g
Tray..... 100/tray
Tape&Reel..... 300/reel