

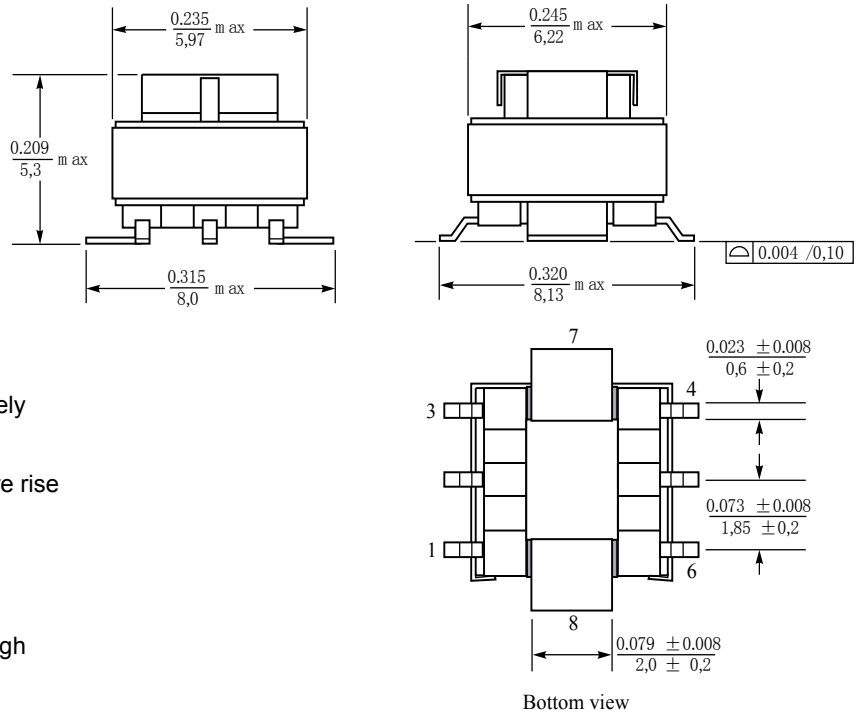
Current Sense Transformer TX-5000

(8.13 x 8.00 x 5.30mm)

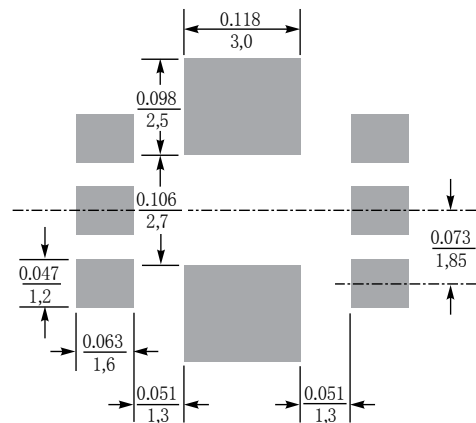
Mechanical

Electrical Specification(25°C)

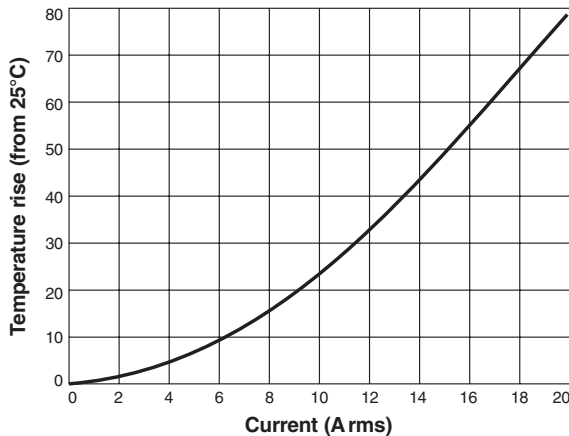
- Turns Ratio:
Pri : Sec = 1 : 100 ±2%
- Inductance(Lp)@100KHz,0.1Vrms:
Secondary : 2.0 mH Min
- DCR@20°C:
Primary : 0.0007Ω Max
Secondary : 5.50Ω Max
- Sensed current $I_{in(A)}$: 10 A
Primary current of 10 A causes approximately 25°C temperature rise from 25°C ambient.
Higher current causes a greater temperature rise (see temperature rise vs current curve)
- Terminating resistance R_T : 10 Ω
Terminating resistance(R_T) value is based on 1 Volt output with 10 Amps flowing through the primary. Varying terminating resistance increases or decreases output Voltage/Ampere according to the following equation: $R_T(Ohms)=V_{out} \times N_{sec}/I_{in}$
- Volt-time product(V-μsec) : 81
Maximum volt-time product for the secondary
- Hi-Pot :
500V AC, 1.0mA, 1Sec : Pri to Sec
- Operating temperature range : -40°C to +125°C
- Storage temperature range : -40°C to +125°C



Recommended Land Pattern



Temperature Rise vs Current



Schematic

