

FC-SCT1010-Series-40A.Current Sense Transformers

Height: 14.0mm Max

Current Rating: up to 40A

Insulation: Reinforced, 6.5mm creepage , Isolation AC3750Vrms UL

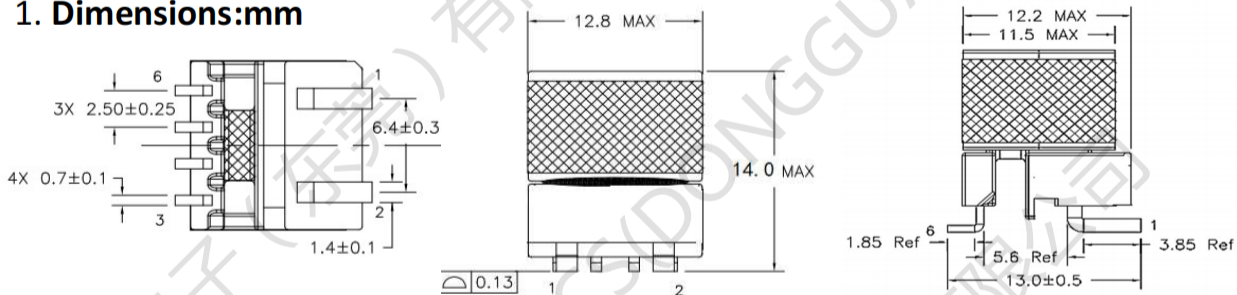
Ambient temperature -40°C to $+85^{\circ}\text{C}$

Storage temperature Component: -40°C to $+125^{\circ}\text{C}$

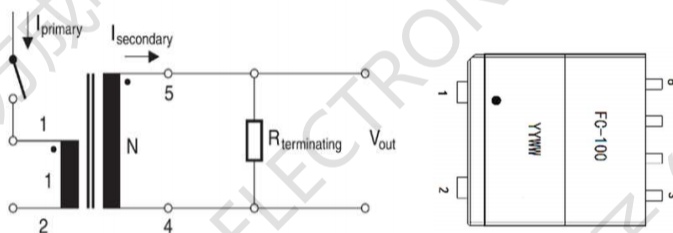
It is used as DC current transformer for various electronic device detection



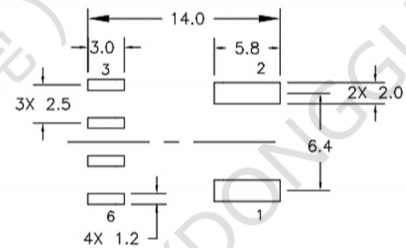
1. Dimensions:mm



2.Schematic:



3.PCB,LAYOUT RECOMMENDATION



4.Electrical Characteristics :

| Part Number | Turns Ration | Current Rating NP1-2,(A) | Secondary Inductance (PIN5-4-mH min) | DCR MAX) | | Hipot (ACV _{RMS}) Np-Ns |
|-----------------------|--------------|-----------------------------|---|----------------------|-----------------------|---|
| | | | | Primary (1-2(mΩ)) | Secondary (5-4(Ω)) | |
| FC-SCT1010-1:50T-40A | 1:50 | 40 | 1.8 | 0.5 | 1.5 | 3750V |
| FC-SCT1010-1:70T-40A | 1:70 | 40 | 3.5 | 0.5 | 2.0 | 3750V |
| FC-SCT1010-1:100T-40A | 1:100 | 40 | 7.0 | 0.5 | 2.5 | 3750V |
| FC-SCT1010-1:125T-40A | 1:125 | 40 | 11.0 | 0.5 | 3.0 | 3750V |
| FC-SCT1010-1:150T-40A | 1:150 | 40 | 15.0 | 0.5 | 3.5 | 3750V |
| FC-SCT1010-1:180T-40A | 1:180 | 40 | 25.0 | 0.5 | 9.0 | 3750V |
| FC-SCT1010-1:200T-40A | 1:200 | 40 | 30.0 | 0.5 | 9.5 | 3750V |

It is used as DC current transformer for various electronic device detection.

Inductance: 10KHZ/0.25V, To calculate value of terminating resistor (Rt) use the following formula: $R_t (V) = V_{ref} * N / (I_{peak_primary})$

The peak flux density of the device must remain below 2200 Gauss. To calculate the peak flux density for uni-polar current use following formula: $B_{pk} = 8.85 * V_{ref} * (Duty_Cycle_Max) * 105 / (N * Freq_kHz)$

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