Ultra small AC current sensor for precise measurement for PCB mounting horizontally

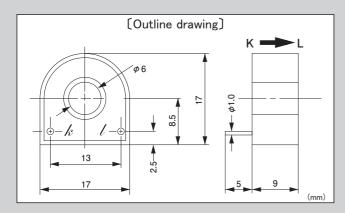


Model

CTL-6-L-Z

(Features)

- Straight pins for PCB mounting horizontally. The smallest model in CTL-Z series for precise measurement.
- lacktriangle Ensure aperture diameter (ϕ 6) in ultra small model. Mass approximately 5g, optimum for PCB mounting directly with the penetrated conductor.
- Covering the wide range of 1mA~15A with adoption of permalloy core of high magnetic permeability
- ●Possible to interface with electrical circuit directly by 800:1 high current ratio



[Specification] Ta=25°C	
Model	CTL-6-L-Z
Primary current	1mA ~ 15Arms (50 \angle 60Hz), RL \leq 10 Ω
Maximum primary current	60Arms continuous
Saturation limited current	20Arms (50 ∕ 60Hz), R∟≦1Ω
Output characteristics	Refer "Output voltage characteristics"
Linearity	Refer "Coupling efficiency [K] characteristics" (Use the flat range of [K] characteristic in the application as the linear sensor)
Secondary windings (n)	800±2 turn
Secondary windings resistance	33Ω (reference)
Withstand voltage	AC2000V(50/60Hz), 1min(between aperture and output terminal in a lump)
Insulation resistance	DC500V, ≥100MΩ (between aperture and output terminal in a lump)
Operating temperature	-20°C∼ +75°C , ≦80%RH, no condensation
Storage temperature	-30°C ~ $+90$ °C , $≤80$ %RH, no condensation
Structure	PBT plastic case, potted by epoxy on one side
Output terminal	ϕ 1.0 X 5 ℓ (hard cupper pins), gold plating

Remark (1) Output voltage is changed by the penetrated current/load resistor/[K] characteristic and so on. Please set up the condition for use with careful investigation of each characteristic

approximately 5g

- (2) Please use with enough margin if the range of coupling efficiency [K] ≤ 0.9, because it is the range to happen the individual difference.
- (3) Opening the secondary during turn ON is hazardous and the cause of failure, because of generating high voltage
- (4) Please be careful of CT heating in case to use with high frequency, although this CT is basically used at 50/60Hz.

