

CT corresponding to high frequency current

Medium size CT for high frequency current and both of PCB and panel mounting -50Hz ~ 500kHz-

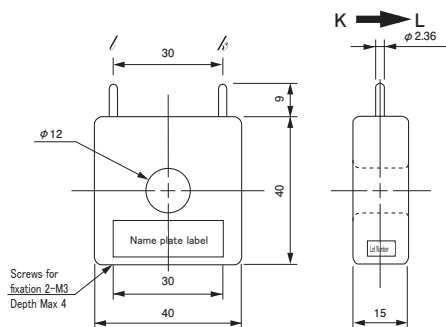


Model CTL-12-S30-2.5Z

[Features]

- Medium size CT (Current Transformer) for high frequency bandwidth
- Possible to detect current until 500kHz, 200A max without contact, and little load toward current wire (Attention: See remark)
- Possible to apply to detect and control high frequency current for inverter, electromagnetic cooker, high frequency switching power supply, and so on

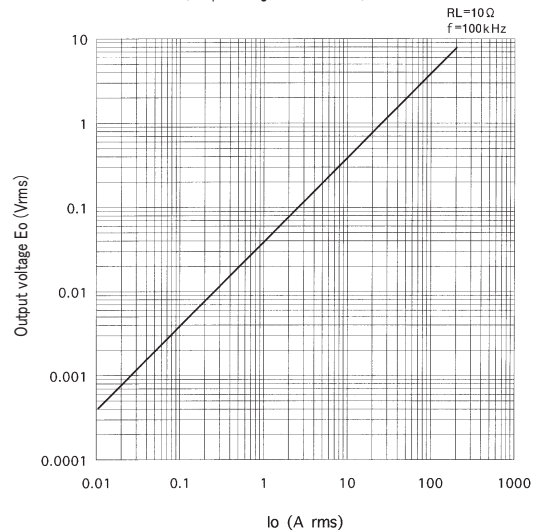
[Outline drawing]



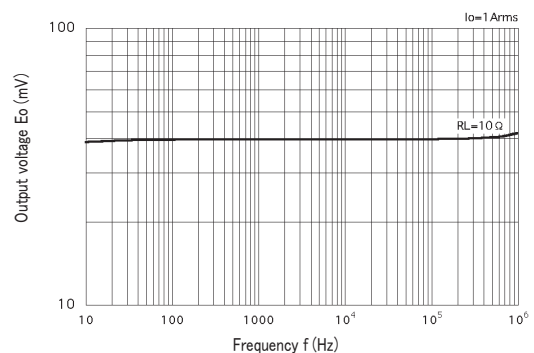
[Specification] Ta=25°C

Model	CTL-12-S30-2.5Z
Primary current	0.01 ~ 200Arms, $R_L=10\Omega$
Maximum primary current	200Arms continuous (50Hz ~ 100kHz sine wave, $R_L=10\Omega$)
Frequency	50Hz ~ 500kHz ($I_o=1A$, $R_L=10\Omega$) (At low frequency and $R_L=10\Omega$, please attention to be saturated with low current range)
Output characteristics	Refer "Output voltage characteristics"
Linearity	$\pm 3\%$ FS
Secondary windings (n)	250 \pm 2 turns
Secondary windings resistance	1.4 Ω (reference)
Withstand voltage	AC2000V(50/60Hz), 1min(between aperture and output terminal in a lump)
Insulation resistance	DC500V, $\geq 100M\Omega$ (between aperture and output terminal in a lump)
Operating temperature	-20°C ~ +75°C, $\leq 80\%$ RH, no condensation
Storage temperature	-30°C ~ +90°C, $\leq 80\%$ RH, no condensation
Structure	PBT plastic case, potted by epoxy in one side
Output terminal	$\phi 2.36 \times 9L$ (round pins), tin plating
Screw torque	0.3N · m
Mass	approximately 52g

[Output voltage characteristics]



[Frequency characteristics]



Remark

- (1) Generate high power on secondary with high frequency application, though small size CT
- (2) Please consider enough safety measure, because of becoming burn out with open secondary circuit especially
- (3) Recommend to use secondary load resistor as low as possible with high frequency and high current, because of reduction of heating by core loss
- (4) Please ask if using for high current, because derating maximum primary current is necessary depended on frequency