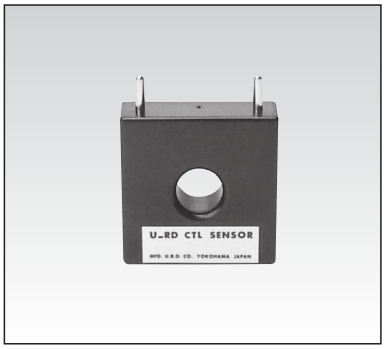
CT corresponding to high frequency current

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

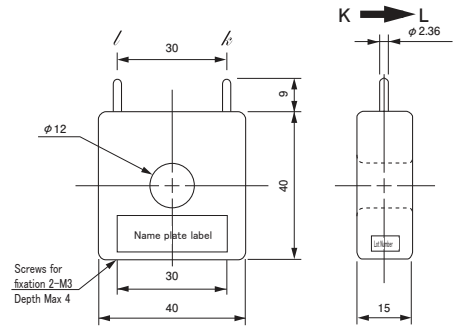


Model CTL-12-S30-2.5Z

〔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

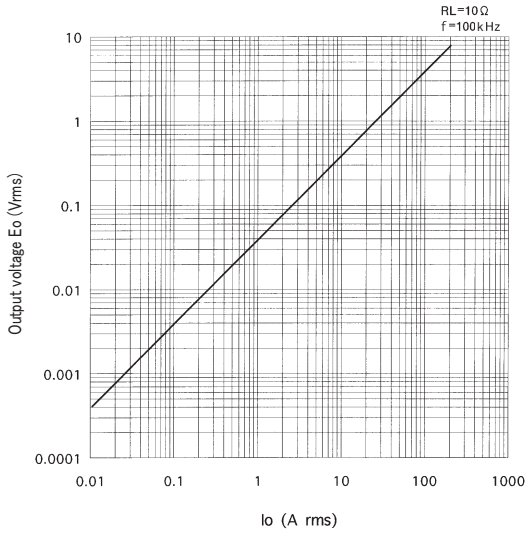
〔Outline drawing〕



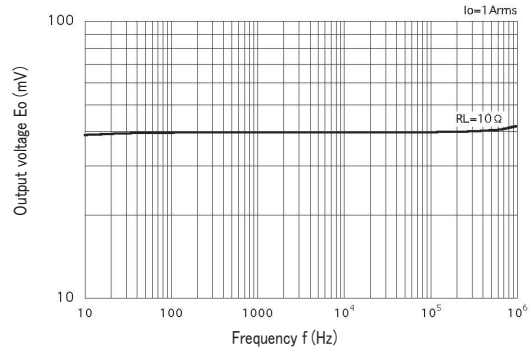
〔Specification〕 Ta=25℃

Model	CTL-12-S30-2.5Z
Primary current	0.01 ~ 200Arms、R_L=10Ω
Maximum primary current	200Arms continuous (50Hz ~ 100kHz sine wave, RL=10Ω)
Frequency	50Hz ~ 500kHz (Io=1A, RL=10Ω) (At low frequency and RL=10Ω, please attention to be saturated with low current range)
Output characteristics	Refer "Output voltage characteristics"
Linearity	±3% FS
Secondary windings (n)	250±2 turns
Secondary windings resistance	1.4Ω (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℃~ +75℃, ≦80%RH, no condensation
Storage temperature	-30℃~ +90℃, ≦80%RH, no condensation
Structure	PBT plastic case, potted by epoxy in one side
Output terminal	φ2.36X9ℓ (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

2016.7