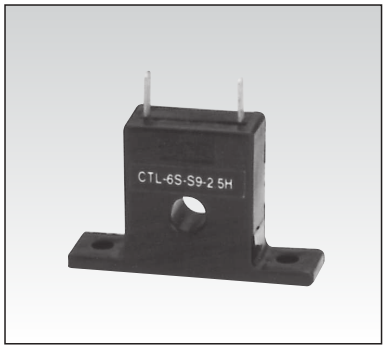
CT corresponding to high frequency current

Small size CT for high frequency current and panel mounting -1kHz ～ 1MHz-

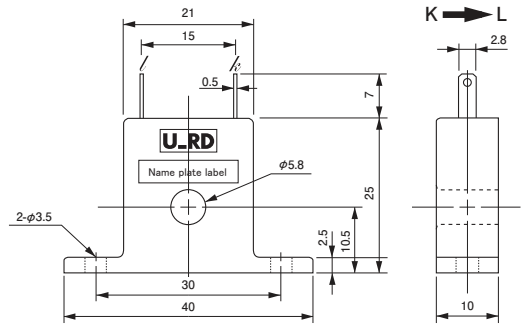


Model CTL-6-S-S9-2.5H

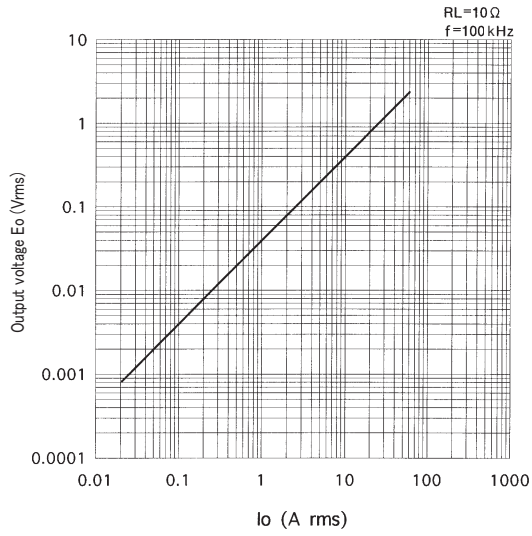
〔Features〕

- Small size CT (Current Transformer) for high frequency bandwidth
- Possible to detect current until 1MHz, 60A 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〕



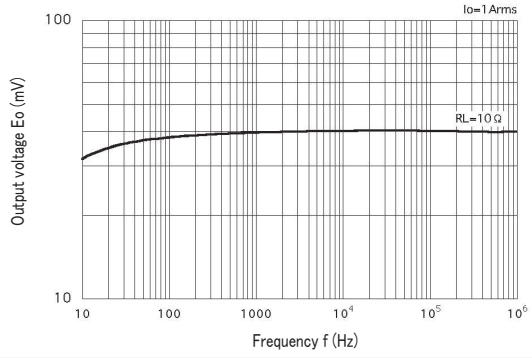
〔Output voltage characteristics〕



〔Specification〕 Ta=25℃

Model	CTL-6-S-S9-2.5H
Primary current	0.01 ～ 60Arms、R_L=15Ω
Maximum primary current	60Arms continuous (1kHz ～ 100kHz sine wave, RL=15Ω)
Frequency	1kHz ～ 1MHz
Output characteristics	Refer "Output voltage characteristics"
Linearity	±3% FS
Secondary windings (n)	242±2 turns
Secondary windings resistance	2.6Ω (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	#110, faston terminal. tin plating
Screw torque	0.3N・m
Mass	approximately 11g

〔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