

## Medium size output wire type CT for high frequency current -50Hz ~ 500kHz-

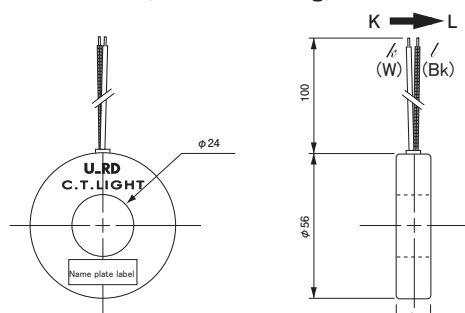


Model CTL-24-S28-2.5Z

### [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

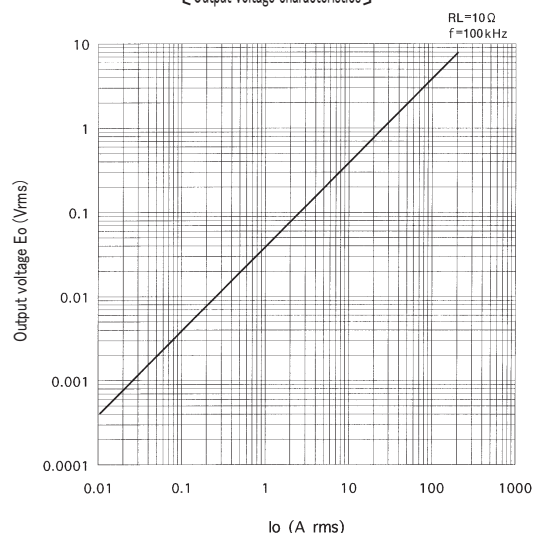
### [Outline drawing]



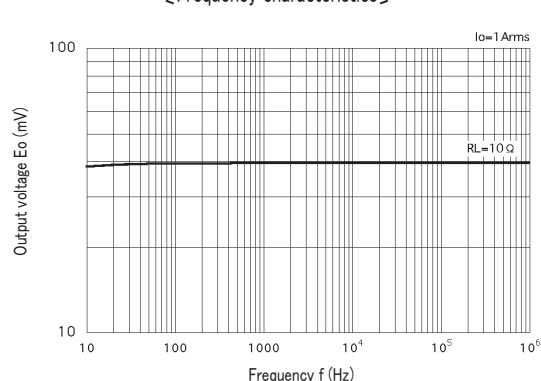
### [Specification] Ta=25°C

Model	CTL-24-S28-2.5Z
Primary current	0.02 ~ 200Arms, $R_L=10\Omega$
Maximum primary current	200Arms continuous (50Hz ~ 100kHz sine wave, $R_L=10\Omega$ )
Frequency	50Hz ~ 500kHz ( $I_0=1A$ , $R_L=10\Omega$ ) (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	$1.3\Omega$ (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	$-20^\circ\text{C} \sim +75^\circ\text{C}$ , $\leq 80\%$ RH, no condensation
Storage temperature	$-30^\circ\text{C} \sim +90^\circ\text{C}$ , $\leq 80\%$ RH, no condensation
Structure	Polycarbonate plastic case, potted by epoxy
Output wire	PVC Vinyl isolated wire(0.3mm <sup>2</sup> X100ℓ)
Mass	approximately 58g

### [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