

# Open Loop Current Sensor

## ELECTRICAL DATA/INPUT :

Primary Nominal R.M.S. Current Ir(A)	Primary Current Measuring Range Ip(A) at Vcc=±15V	Part Name Type	Part Number
100~500	±Ir*2	OLTM1000~OLTM5000	CT030XXXXXXXX
Vcc	Supply Voltage		±15V ±5%
Ic	Current Consumption		<20mA
Iis	R.M.S. Voltage for 3.5KVAC Isolation test, 50/60Hz, 1min		<10mA
Ris	Isolation Resistance at 500 VDC		>500Mohm

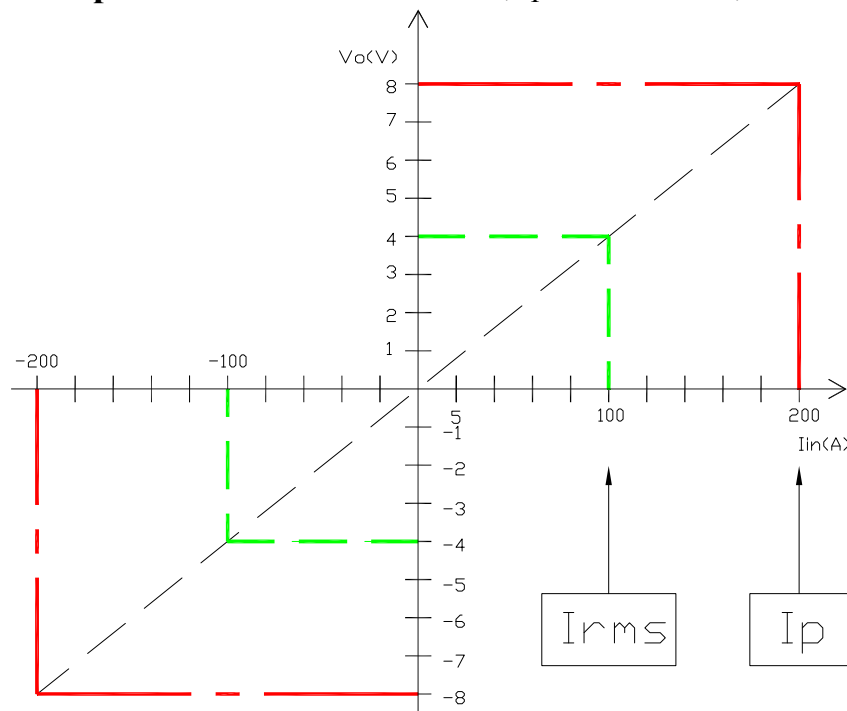
## ELECTRICAL DATA/OUTPUT

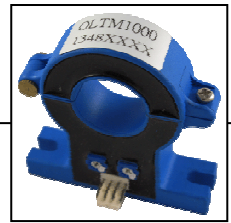
Vout	Output voltage at Ir , TA=25°C	4V±1%
Rout	Output Impedance	<150 ohm
RL	Load Resistor	>10Kohm
X	Accuracy at Ir , TA=25°C (without offset)	<±1%
EL	Linearity from 0 to Ir , TA=25°C	<±1%
Voe	Electrical Offset Voltage , TA=25°C	<±40mV
Vom	Magnetic Offset Voltage (Ir→0)	<±20mV
Vot	Thermal Drift of Offset Voltage	<±2mV/°C
T.C.	Thermal Drift (-10°C to 50°C)	<±0.1%/°C
Tr	Response Time to 90% of Ir(f=1KHz)	<5us
FB	Frequency Bandwidth (-3dB)	50KHz

## GENERAL DATA :

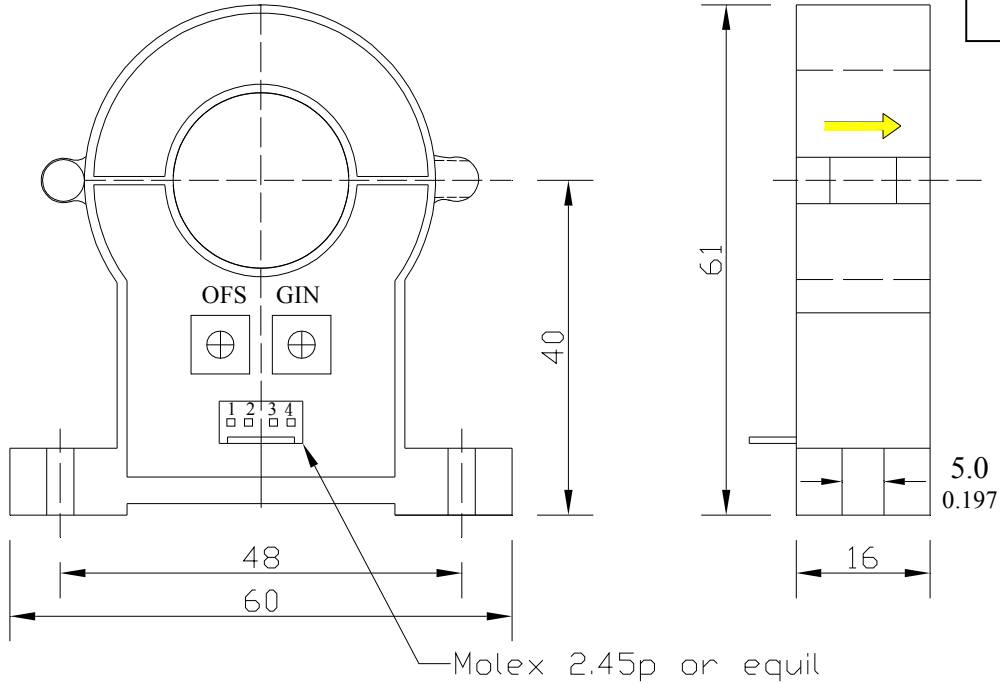
TA	Ambient Operating Temperature	-10 ~ +80°C
Ts	Ambient Storage Temperature	-25 ~ +85°C

**Output voltage v.s. Input current:** Ex: Irms=100A ; Ip=100\*2=200A, Vcc=±15V(Dual power)

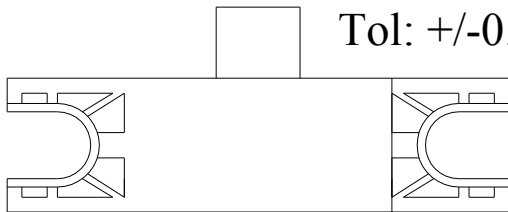




**Outline dimension & Pin definition** (all tolerance:±0.5mm)

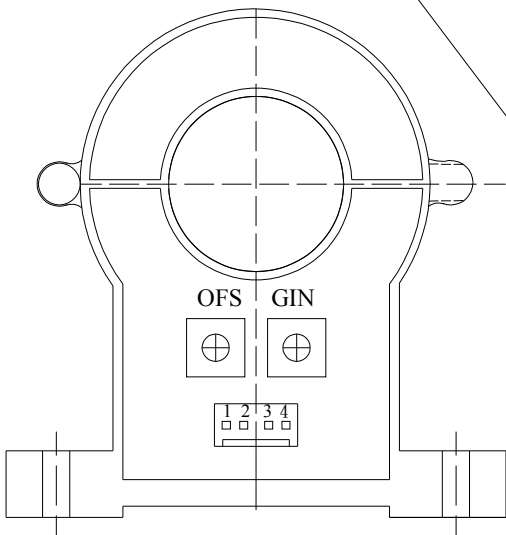
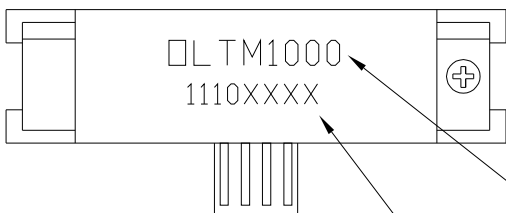


unit: mm  
Tol: +/-0.5mm



Secondary terminals	
Terminal 1	+15V
Terminal 2	-15V
Terminal 3	OUTPUT
Terminal 4	GND

**Marking & Description**



**OLTM1000**  
 — Nominal Input Current exp.:0~9  
 — Nominal Input Current value  
 Ex: (1) 100-0=100x10<sup>0</sup>=100 (Amp)  
 — OLTM: Open Loop TM type

**1110XXXX**  
 — XXXX: Manufacture Series No.  
 — 10: week 10th  
 — 11: Year 2011