

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
3~50	±Ir*3	CTI0030~CTI0500	CT009XXXXXXXX
Vcc	Supply Voltage		±15V ±5%
Ic	Current Consumption		<20*2mA
Iis	R.M.S. Voltage for 2.5KVAC Isolation test, 50/60Hz, 1min		<10mA
Ris	Isolation Resistance at 500 VDC		>500Mohm

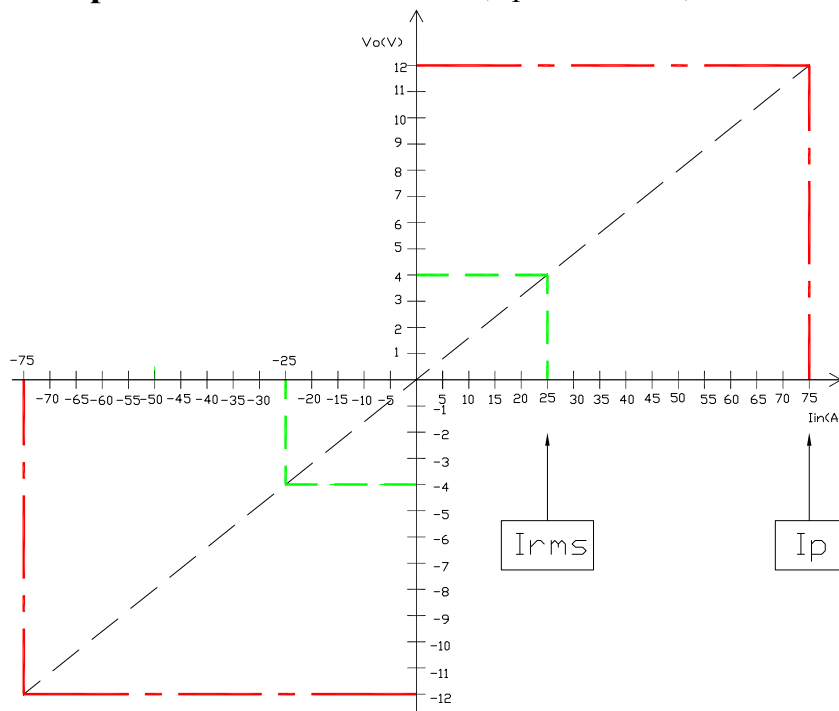
ELECTRICAL DATA/OUTPUT

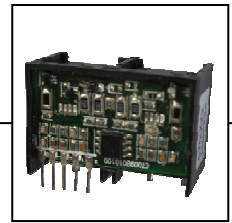
Vout	Output voltage at Ir , TA=25°C	4V±1%
Rout	Output Impedance	<150 ohm
RL	Load Resistor	>10Kohm
X	Accuracy at Ir , TA=25°C (without offset)	<±1%
EL	Linearity from 0 to Ir , TA=25°C	<±1%
Voe	Electrical Offset Voltage , TA=25°C	<±40mV
Vom	Magnetic Offset Voltage (Ir→0)	<±15mV
Vot	Thermal Drift of Offset Voltage	<±2mV/°C
T.C.	Thermal Drift (-10°C to 50°C)	<±0.1%/°C
Tr	Response Time to 90% of Ir(f=1KHz)	<3us
FB	Frequency Bandwidth (-3dB)	50KHz

GENERAL DATA :

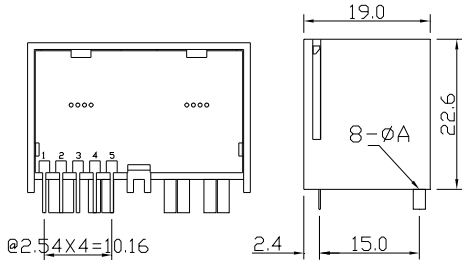
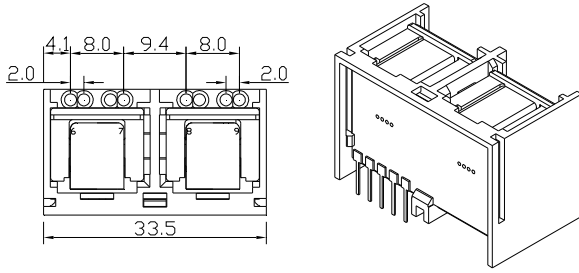
TA	Ambient Operating Temperature	-10 ~ +80°C
Ts	Ambient Storage Temperature	-25 ~ +85°C

Output voltage v.s. Input current: Ex: Irms=25A ; Ip=25*3=75A, Vcc=±15V(Dual power)





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



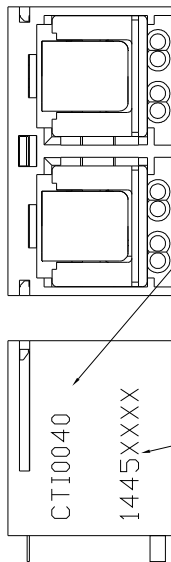
Terminal Pin Identification

1. Ground
2. V-
3. V+
4. Vo1
5. Vo2
6. Iin+(1)
7. Iin-(1)
8. Iin+(2)
9. Iin-(2)

Primary Conductor Terminal

CTI0030	ø0.6
CTI375B	ø0.6
CTI0040	ø0.6
CTI0050	ø0.8
CTI625B	ø0.8
CTI075A	ø1.0
CTI0100	ø1.0
CTI125A	ø1.6
CTI0150	ø1.6
CTI185A	ø1.6
CTI0200	ø1.6
CTI0250	ø1.6
CTI0300	ø1.6X2
CTI0350	ø1.6X2
CTI375A	ø1.6X2
CTI0400	ø1.6X2
CTI0450	ø1.6X2
CTI0500	ø1.6X2

Marking & Description



CTI0040

Nominal Input Current exp.: B=>-2; A=>-1; 0~9
Nominal Input Current value

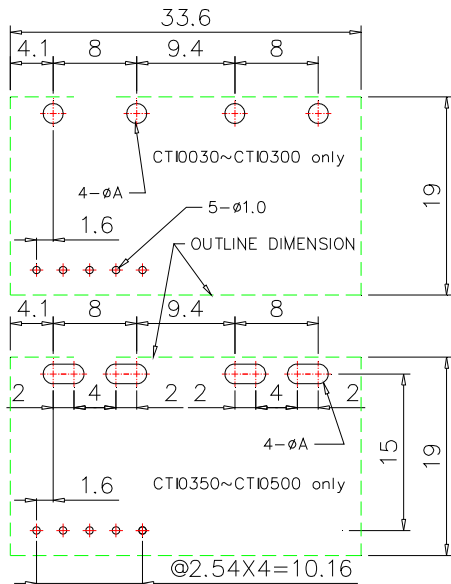
Ex: (1) 004-0=4x10⁰=4 (Amp)
(2) 075-A=75x10⁻¹=7.5 (Amp)

CTH: Current Transducert Type H(2in1)

1445XXXX

Manufacture series number
45: Week 45th
14: Year 2014

Layout Recommend:



Part Name	øA(mm)	Part Name	øA(mm)
CTI0030	ø1.0	CTI185A	ø2.0
CTI375B	ø1.0	CTI0200	ø2.0
CTI0040	ø1.0	CTI0250	ø2.0
CTI0050	ø1.2	CTI0300	ø2.0
CTI625B	ø1.2	CTI0350	ø2.0
CTI075A	ø1.4	CTI375A	ø2.0X2
CTI0100	ø1.4	CTI0400	ø2.0X2
CTI125A	ø2.0	CTI0450	ø2.0X2
CTI0150	ø2.0	CTI0500	ø2.0X2