

### 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	CTD0030~CTD0500	CT004XXXXXXXX
Vcc	Supply Voltage		±15V ±5%
Ic	Current Consumption		<20mA
Iis	R.M.S. Voltage for 2.5KVAC Isolation test, 50/60Hz, 1min		<10mA
Ris	Isolation Resistance at 500 VDC		>500Mohm

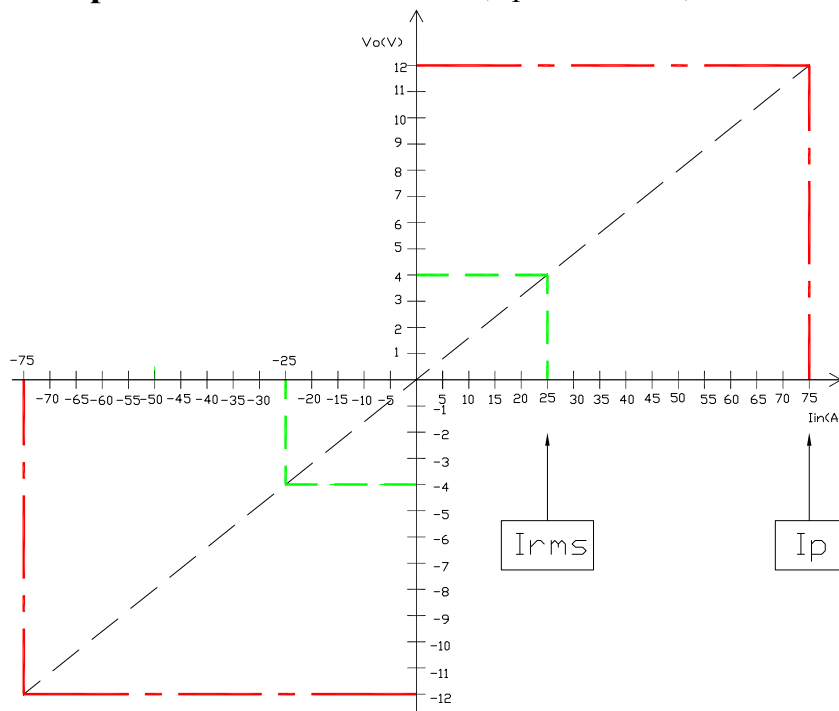
### ELECTRICAL DATA/OUTPUT

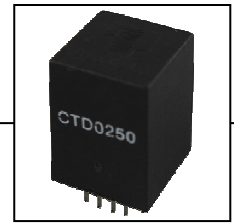
Vout	Output voltage at Ir , TA=25°C	4V±1%
Rout	Output Impedance	<150 ohm
RL	Load Resistor	>10Kohm
X	Accuracy at Ir , TA=25°C (without offset)	<±1%
EL	Linearity from 0 to Ir , TA=25°C	<±1%
Voe	Electrical Offset Voltage , TA=25°C	<±40mV
Vom	Magnetic Offset Voltage (Ir→0)	<±15mV
Vot	Thermal Drift of Offset 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 :

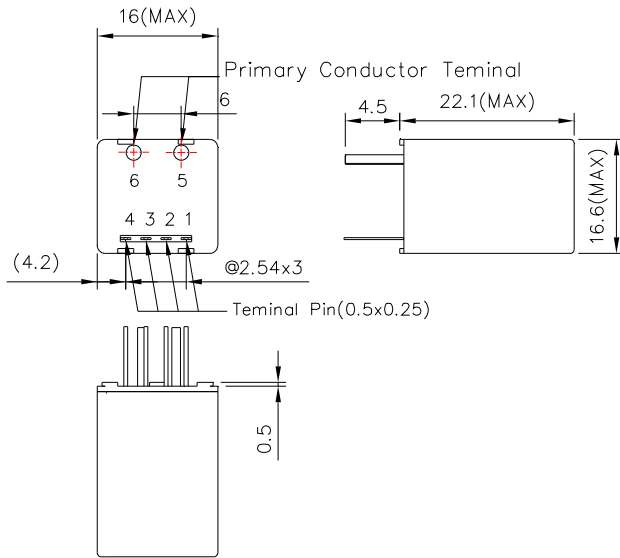
TA	Ambient Operating Temperature	-10 ~ +80°C
Ts	Ambient Storage Temperature	-25 ~ +85°C

**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)

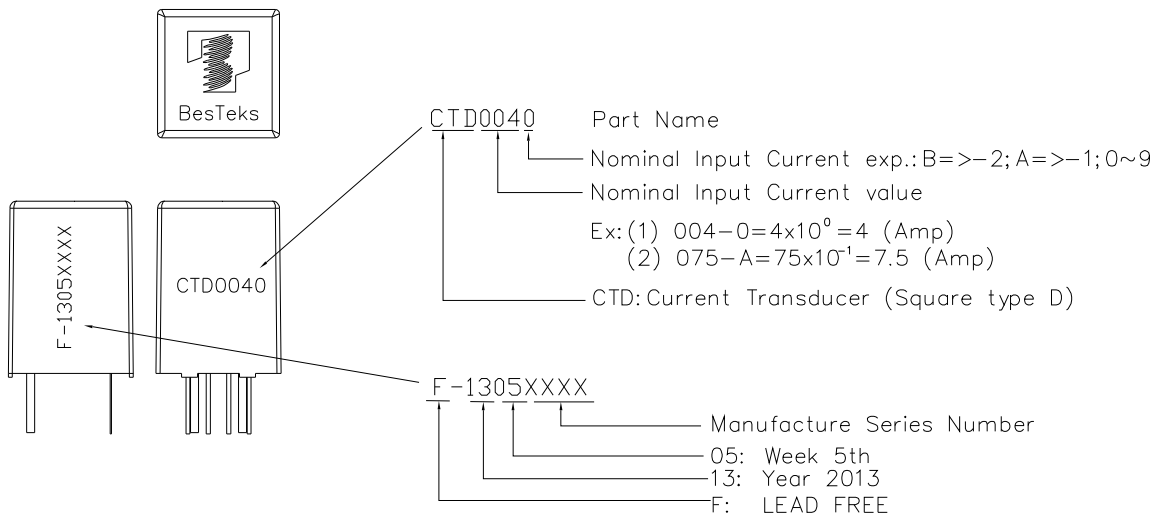


- Terminal Pin Identification
- 1. V-
  - 2. Ground
  - 3. V+
  - 4. Output
  - 5. Coil Input +
  - 6. Coil Input -

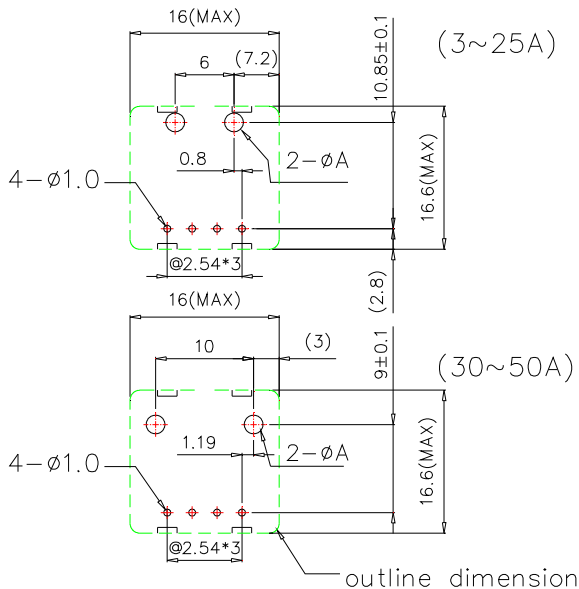
Primary Conductor Terminal

CTD0030	∅0.6	CTD185A	∅1.6
CTD375B	∅0.6	CTD0200	∅1.6
CTD0040	∅0.6	CTD0250	∅1.6
CTD0050	∅0.8	CTD0300	∅2.2
CTD625B	∅0.8	CTD0350	∅2.2
CTD075A	∅1.0	CTD375A	∅2.2
CTD0100	∅1.0	CTD0400	∅2.2
CTD125A	∅1.6	CTD0450	∅2.2
CTD0150	∅1.6	CTD0500	∅2.2

**Marking & Description**



**Layout Recommend:**



Part Name	∅A(mm)	Part Name	∅A(mm)
CTD0030	∅1.0	CTD185A	∅2.0
CTD375B	∅1.0	CTD0200	∅2.0
CTD0040	∅1.0	CTD0250	∅2.0
CTD0050	∅1.2	CTD0300	∅2.6
CTD625B	∅1.2	CTD0350	∅2.6
CTD075A	∅1.4	CTD375A	∅2.6
CTD0100	∅1.4	CTD0400	∅2.6
CTD125A	∅2.0	CTD0450	∅2.6
CTD0150	∅2.0	CTD0500	∅2.6