

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
15~30	±Ir*3	OLTK0150~OLTK0300	CT031XXXXXXXX
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

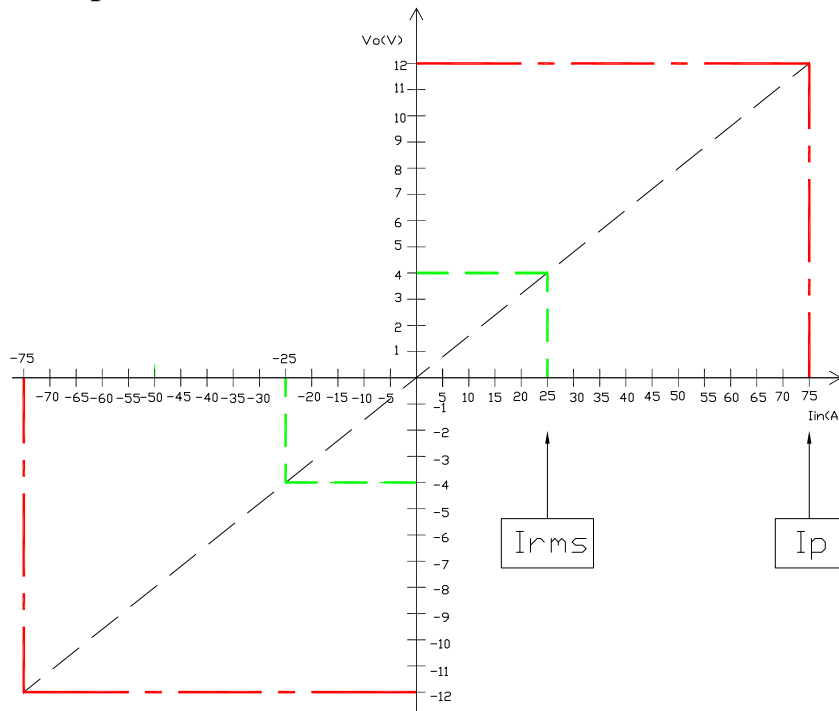
ELECTRICAL DATA/OUTPUT

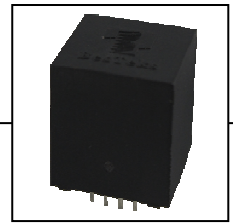
Vout	Output voltage at Ir , TA=25°C	4V±1%
Rout	Output Impedance	<150 ohm
RL	Load Resistor	>10Kohm
X	Accuracy at Ir , TA=25°C (without offset)	<±1%
EL	Linearity from 0 to Ir , TA=25°C	<±1%
Voe	Electrical Offset Voltage , TA=25°C	<±40mV
Vom	Magnetic Offset Voltage (Ir→0)	<±15mV
Vot	Thermal Drift of Offset Voltage	<±1.5mV/°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 :

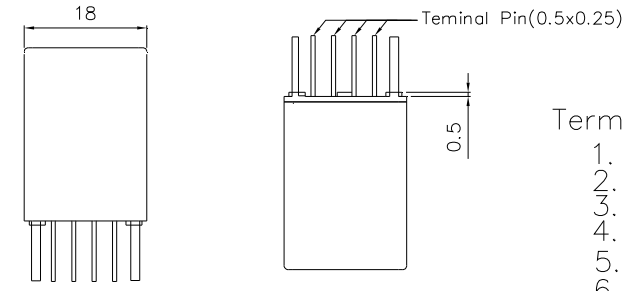
TA	Ambient Operating Temperature	-25 ~ +85°C
Ts	Ambient Storage Temperature	-25 ~ +85°C

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





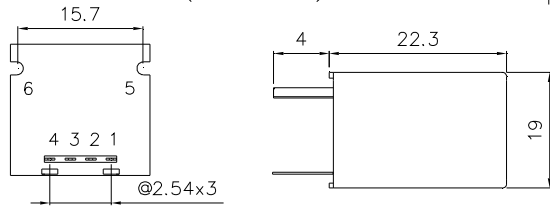
Outline dimension & Pin definition (all tolerance:±0.5mm)



Terminal Pin Identification

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

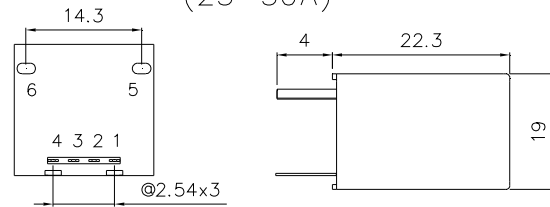
(15~20A)



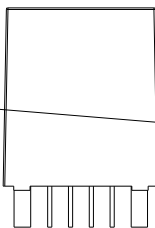
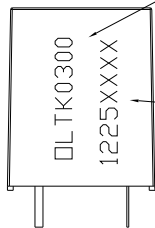
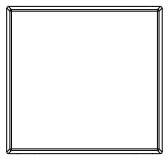
Primary Conductor Terminal

OLTK0150	∅1.6
OLTK0200	∅1.6
OLTK0250	∅1.0*2
OLTK0300	∅1.0*2

(25~30A)



Marking & Description



OLTK0300

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

Ex: (1) 030-0=30x10⁰=30 (Amp)
(2) 075-A=75x10⁻¹=7.5 (Amp)

OLTK: Open Loop TK Type

1225XXXX

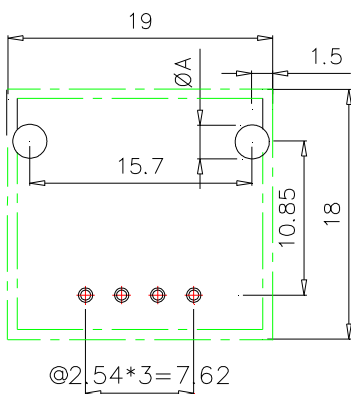
Manufacture Series Number

25: Week 25th

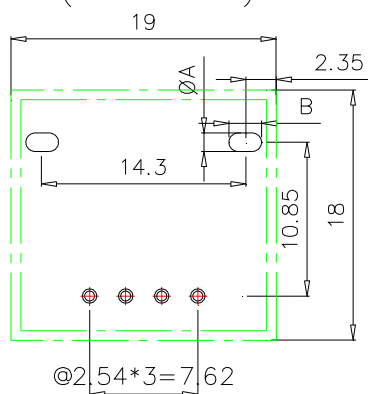
12: Year 2012

Layout Recommend:

(15~20A)



(25~30A)



Part Name	∅A*B(mm)
OLTK0150	∅2.4
OLTK0200	∅2.4
OLTK0250	∅1.6*2.8
OLTK0300	∅1.6*2.8