

Cross Loop Current Sensor

ELECTRICAL DATA/INPUT :

Primary Nominal R.M.S. Current Ir(A)	Primary Current Measuring Range Ip(A) at Vcc=3.3V	Part Name Type	Part Number
3~50	$\pm Ir * 1.1$	CLLG-XXA-AA1	CT032XXXXXXXX
Vcc	Supply Voltage		3.3V $\pm 5\%$
Ic	Current Consumption		$\leq 20mA + (Ir/1000)A$
Iis	R.M.S. Voltage for 3.5KVAC Isolation test, 50/60Hz, 1min		<10mA
Ris	Isolation Resistance at 600 VDC		>500Mohm
CR	Conversion ratio		1:1000

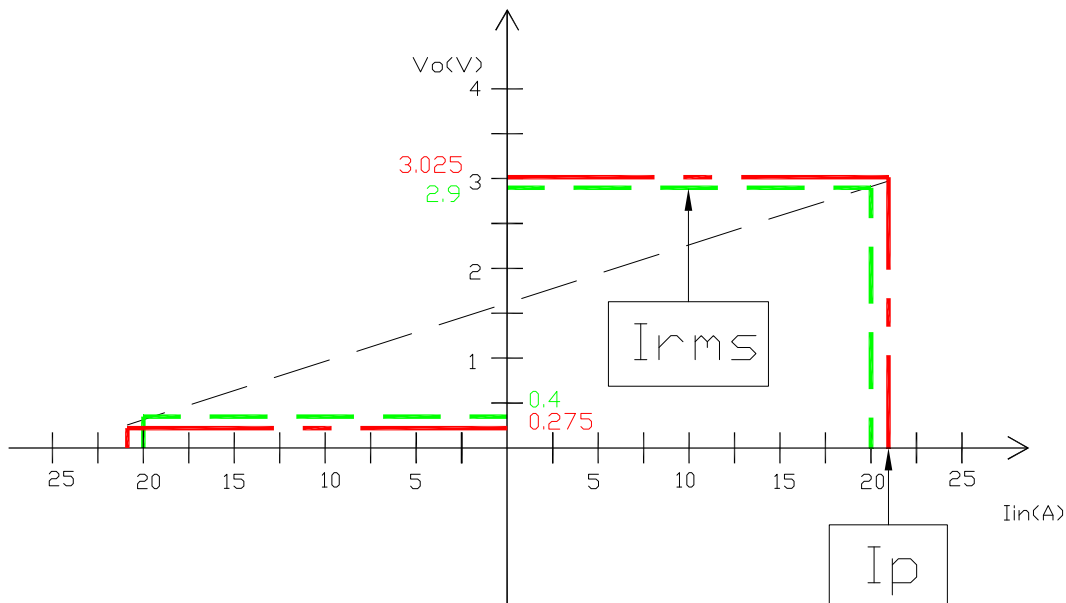
ELECTRICAL DATA/OUTPUT

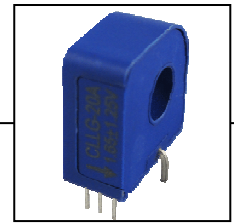
Vout	Output voltage at Ir , TA=25°C	Voe $\pm 1.25V$
CL	Output Load Capacitor	<10nF@Vout~GND
RL	Load Resistor	>2Kohm
X	Accuracy at Ir , TA=25°C (without offset)	< $\pm 0.7\%$
Voe	Electrical Offset Voltage , TA=25°C	1.65 $\pm 15mV$
Vom	Magnetic Offset Voltage (Ir \rightarrow 0)	< $\pm 5mV$
Vot	Thermal Drift of Offset Voltage	< $\pm 0.5mV/^\circ C$
Tr	Response Time to 90% of Ir(f=1KHz)	<1us
FB	Frequency Bandwidth (-3dB)	200KHz
di /dt	Accurately Followed	>50A/us
dCp	Creepage Distance (on case)	10.7mm

GENERAL DATA :

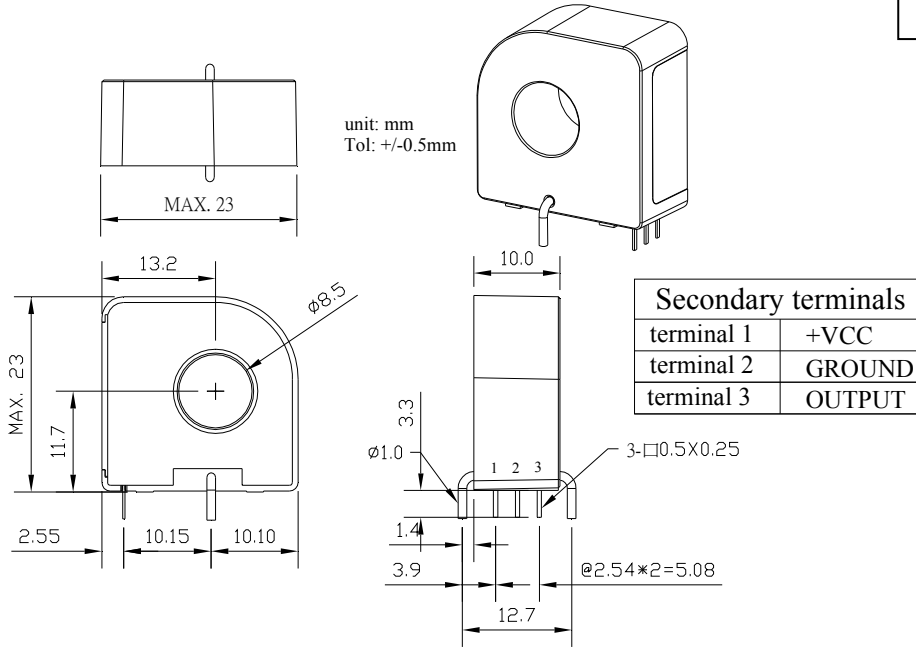
TA	Ambient Operating Temperature	-40 ~ +85°C
Ts	Ambient Storage Temperature	-40 ~ +125°C

Output voltage v.s. Input current: Ex: Irms=20A ; Ip=20*1.1=22A, Vcc=3.3V(Single power)

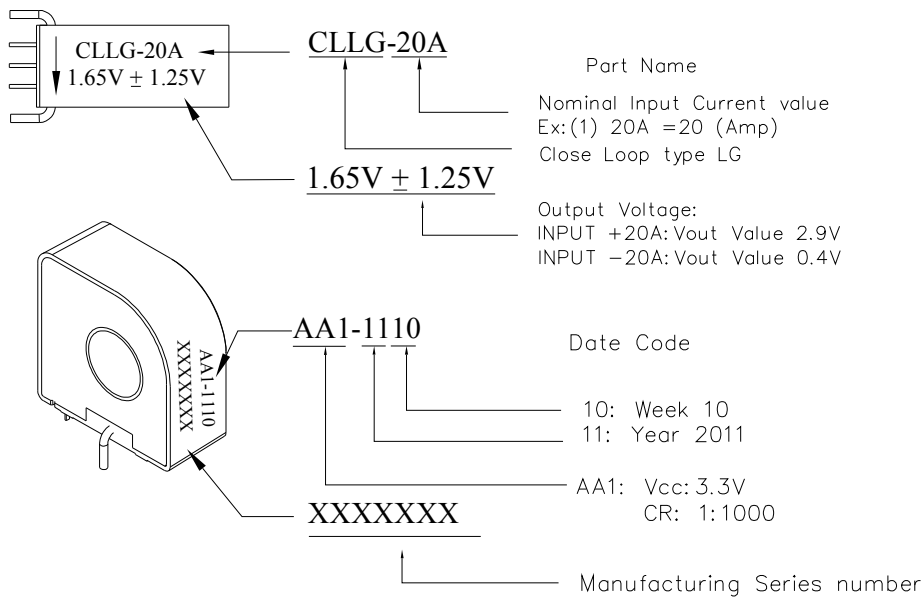




Outline dimension & Pin definition (all tolerance:±0.5mm)



Marking & Description



Layout Recommend:

