

50/60 Hz Current Sensing Transformer



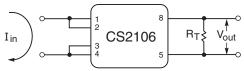
This Coilcraft current sense transformer is intended for use in measuring 50/60 Hz line currents from 0.5 to 20 Amperes rms. Typical application shown below yields an output of 0.1 Volt per Ampere. The sensitivity may be changed by adjusting the value of the terminating resistance (R_T). These parts also can be used to measure 400 Hz line currents.

To request free evaluation samples, contact Coilcraft or visit www.coilcraft.com.

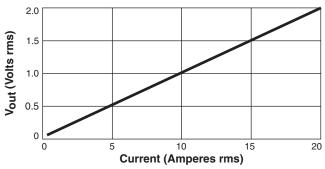
Part	Turns (N)	Inductance ¹	DCR max (Ohms)		Frequency range ²	Sensed current	R _T for 1.0 V _{out}
number	pri : sèc´	min (mH)	1,2 - 3,4	8 – 5	(Hz)	range I_{in}	from 10 Å I _{in} 3
CS2106L	1:500	75	0.007	26	50 – 400	0.5 A – 20 A	68 Ohms

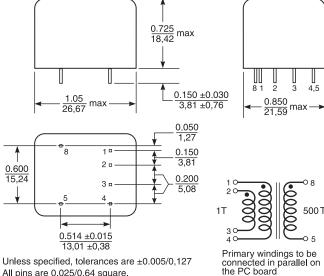
- 1. Inductance is for the secondary, tested at 1 kHz, 0.1 Vrms.
- 2. Square wave response deteriorates above and below this frequency.
- 3. Use the following equation to determine the approximate change in output voltage/ input ampere when varying the terminating resistor: Vout / Iin = $0.1 \times (R_T / 68)$.
- 4. Ambient temperature range -40°C to +85°C.
- 5. Electrical specifications at 25°C.

Typical Circuit



Typical Response (with $R_T = 68$ Ohms)





All pins are 0.025/0,64 square.

Weight: Terminations: Tin-silver over copper Packaging: 30 per tray

inches Dimensions are in



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Specification subject to change without notice. Please check web site for latest information