

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 number	Turns (N) pri : sec	Inductance ¹ min (mH)	DCR max (Ohms)		Frequency range ²	Sensed current	R _T for 1.0 V _{out}
			1,2 – 3,4	8 – 5	(Hž)	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. Varying terminating resistance increases or decreases output Voltage/Ampere in approximate proportion to the ratio R_T/68.

4. Operating temperature range -40°C to +85°C.

5. Electrical specifications at 25°C.

Typical Circuit



Typical Response (with $R_T = 68$ Ohms)





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

Specifications subject to change without notice. Please check our website for latest information.

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