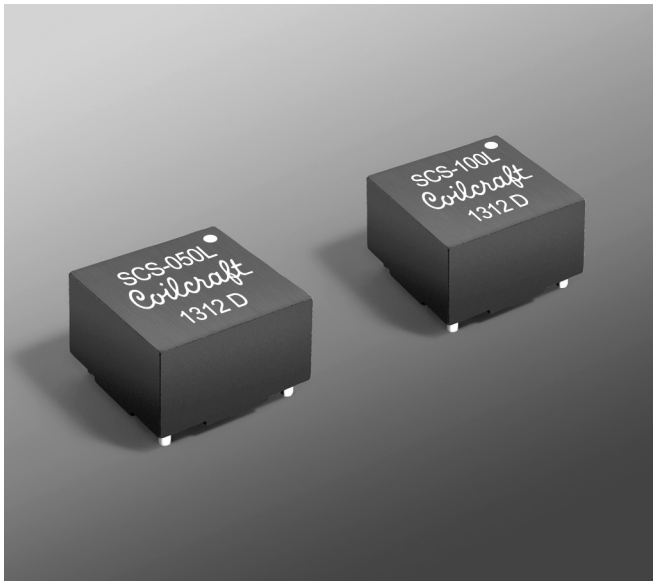
NEW!

Current Sense Transformers – SCS Series



- Sensed current up to 30 A
- Frequency range up to 1 MHz
- 500 Vrms, one minute isolation (hipot) between windings.

Core material Ferrite

Terminations RoHS compliant matte tin over nickel over phos bronze

Weight 3.4 – 3.7 g

Ambient temperature –40°C to +125°C

Storage temperature Component: –40°C to +125°C. Tape and reel packaging: –40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Failures in Time (FIT) / Mean Time Between Failures (MTBF) 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

Packaging 200/13″ reel Plastic tape: 32 mm wide, 0.5 mm thick, 24 mm pocket spacing, 3.0 mm pocket depth

PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf

Part number[1]	Turns (N) pri:sec	Inductance[2] min (mH)	DCR max[6] (Ohms) pri	DCR max[6] (Ohms) sec	Frequency range (kHz)	Volt-time product[4] (Vµsec)	Sensed current I_{in}[5] max (A)	Terminating resistance R_T[6] (Ohms)
SCS-050L_	1:50	3.8	0.0024	0.90	6 – 1000	80	30	1.7
SCS-100L_	1:100	14.8	0.0024	1.80	3 – 1000	160	30	3.3
SCS-200L_	1:200	59.2	0.0024	3.90	2 – 1000	320	30	6.7

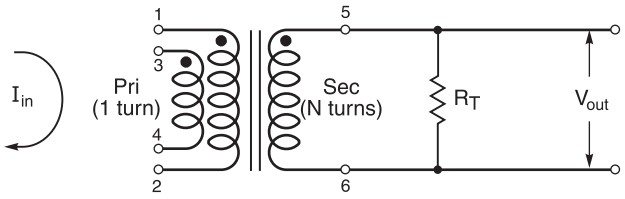
1. When ordering, please specify **packaging** code:

   SCS-200LD

   Packaging: **D** = 13″ machine-ready reel. EIA-481 embossed plastic tape (200 parts per full reel).
   B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added ($25 charge), use code letter C instead.
2. Inductance measured between secondary pins at 10 kHz, 0.06 Vrms, 0 Adc.
3. Primary DCR is measured with the windings connected in parallel.
4. Maximum volt-time product is for the secondary, based on 2000 Gauss.
5. Primary current of 30 A causes less than 25°C temperature rise from 25°C ambient. Higher current causes a greater temperature rise (see Temperature Rise vs Current curve).
6. Terminating resistance (R_T) value is based on 1 Volt output with 30 Amps flowing through the primary. Varying terminating resistance increases or decreases output Voltage/Ampere according to the following equation: $R_T = V_{out} \times N_{sec}/I_{in}$.
7. Electrical specifications at 25°C.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

Typical Circuit



Coilcraft
www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com
UK +44-1236-730595 sales@coilcraft-europe.com
Taiwan +886-2-2264 3646 sales@coilcraft.com.tw
China +86-21-6218 8074 sales@coilcraft.com.cn
Singapore + 65-6484 8412 sales@coilcraft.com.sg

Document 1103-1 Revised 10/30/14

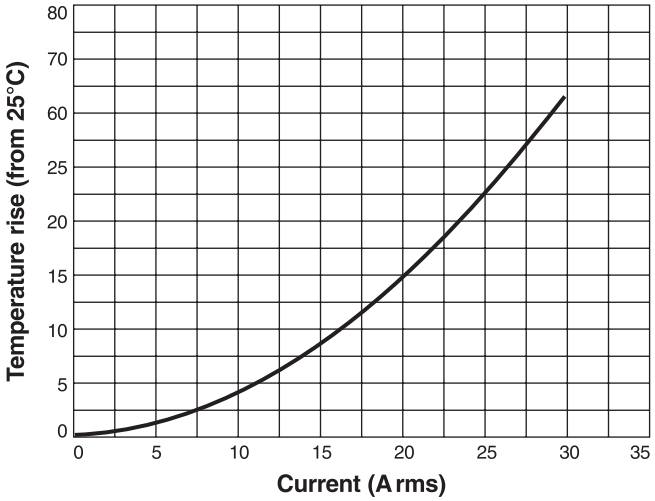
© Coilcraft Inc. 2015
This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.

NEW!

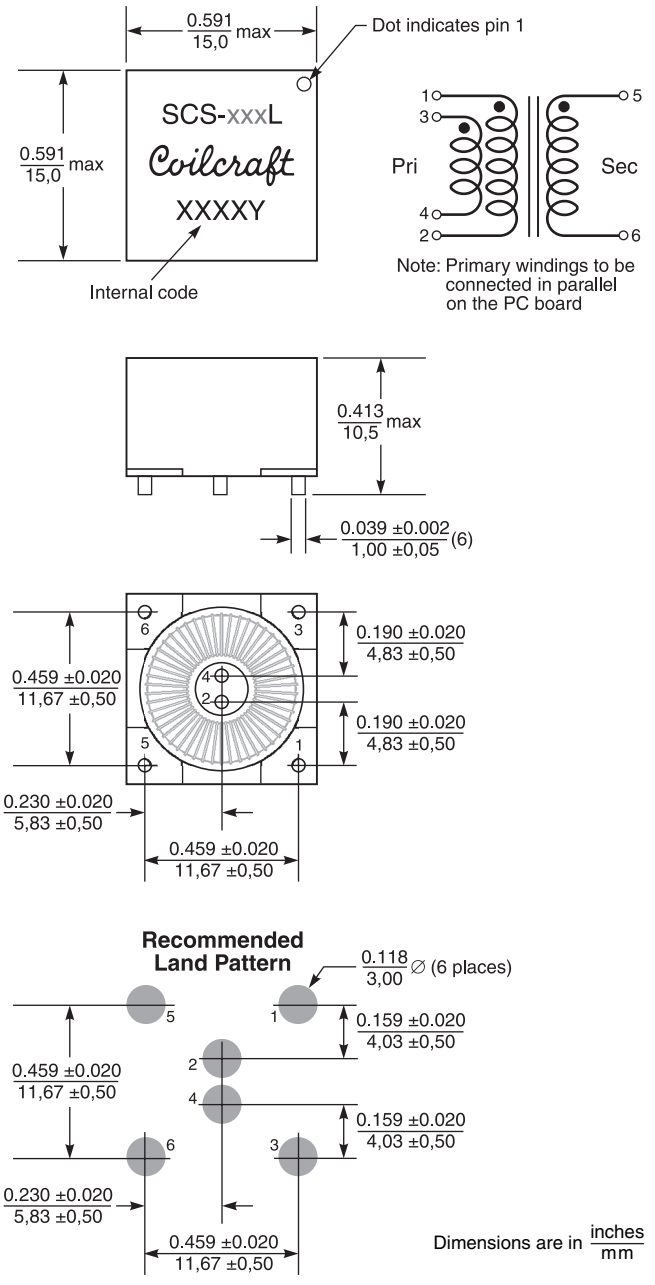
RoHS COMPLIANT

SCS Series Current Sense Transformers

Temperature Rise vs Current



Dimensions



Coilcraft®
www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com
UK +44-1236-730595 sales@coilcraft-europe.com
Taiwan +886-2-2264 3646 sales@coilcraft.com.tw
China +86-21-6218 8074 sales@coilcraft.com.cn
Singapore + 65-6484 8412 sales@coilcraft.com.sg

Document 1103-2 Revised 10/30/14

© Coilcraft Inc. 2015
This product may not be used in medical or high risk applications without prior Coilcraft approval.
Specification subject to change without notice.
Please check web site for latest information.