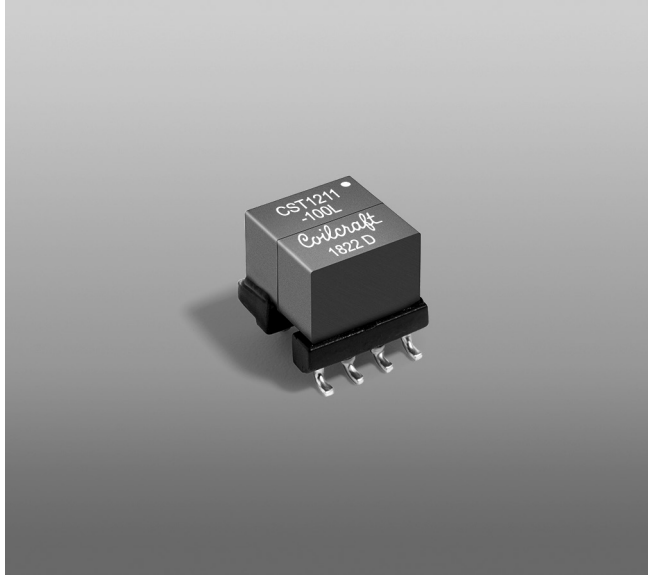


NEW!

Current Sense Transformers CST1211



- Designed for use from 1.18 kHz to 1 MHz to sense continuous currents to 28 Amps
- AEC-Q200 Grade 1 qualified (–40°C to +125°C ambient)
- 3000 Vrms, one minute isolation (hipot) between windings
- 3.6 mm creepage and clearance
- UL Class 180 (H) insulating materials

Core material Ferrite**Environmental** RoHS compliant**Terminations** Tin-silver-copper over tin over nickel over copper**Weight** 2.6 g**Ambient temperature** –40°C to +125°C**Maximum part temperature** +165°C (ambient + temp rise)**Storage temperature** Component: –40°C to +165°C.

Tape and reel Packaging: –40°C to +80°C

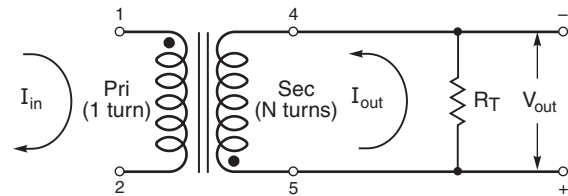
Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles**Moisture Sensitivity Level (MSL)** 1 (unlimited floor life at <30°C / 85% relative humidity)**Failures in Time (FIT) / Mean Time Between Failures (MTBF)**

38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

Packaging 350/13" reel; Plastic tape: 24 mm wide, 0.5 mm thick, 16 mm pocket spacing, 11.6 mm pocket depth**PCB washing** Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

Part number ¹	Turns (N) pri:sec	Inductance ² min (mH)	DCR max (Ohms)		Frequency range (kHz)	Volt-time product ³ (Vµsec)	Sensed current I _{in} ⁴ max (A)	Terminating resistance R _T ⁵ (Ohms)
			pri	sec				
CST1211-050LD	1:50	1.7	0.00153	0.65	33 – 1000	106.0	28	1.8
CST1211-070LD	1:70	3.0	0.00153	1.38	24 – 1000	148.4	28	2.5
CST1211-100LD	1:100	7.0	0.00153	2.79	17 – 1000	212.0	28	3.6
CST1211-125LD	1:125	11.0	0.00153	4.85	13 – 1000	265.0	28	4.5
CST1211-200LD	1:200	32.0	0.00153	10.42	11 – 1000	424.0	28	7.1

- Packaging:** D = 13" machine-ready reel. EIA-481 embossed plastic tape (350 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).
- Inductance measured between secondary pins at 100 kHz, 0.1 Vrms, 0 Adc.
- Maximum volt-time product is for the secondary, based on 2000 Gauss.
- Primary current of 28 A causes less than 40°C temperature rise from 25°C ambient. Higher current causes a greater temperature rise (see Temperature Rise vs Current curve).
- Terminating resistance (R_T) value is based on 1 Volt output with 28 Amps flowing through the primary. Varying terminating resistance increases or decreases output Voltage/Ampere according to the following equation:
 $R_T = V_{out} \times N_{sec} / I_{in}$.
- Electrical specifications at 25°C.
Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Parts shown are preproduction products available for evaluation only.

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 1471-1 Revised 01/03/19

© Coilcraft Inc. 2019

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.

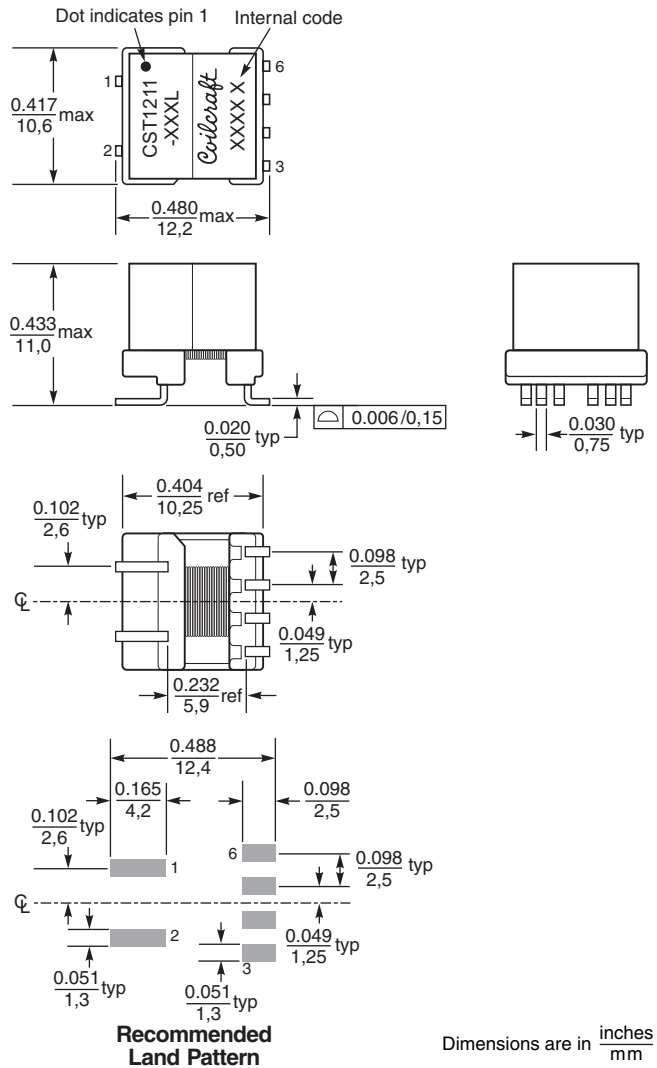
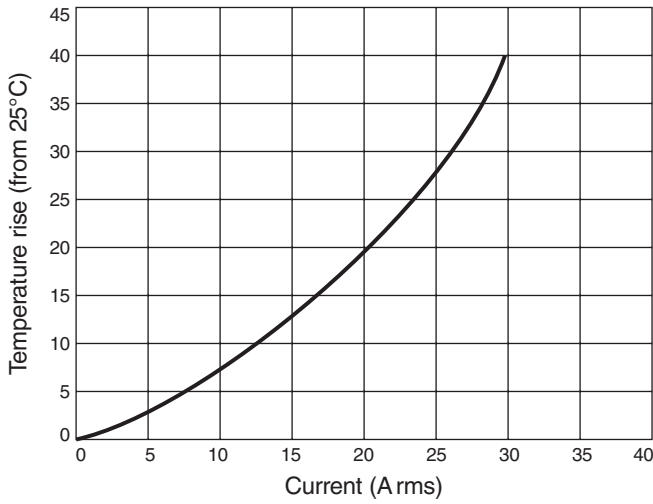
Coilcraft

www.coilcraft.com



CST1211 Series SMT Current Sense Transformers

Temperature Rise vs Current



Parts shown are preproduction products available for evaluation only.

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 1471-2 Revised 01/03/19

© Coilcraft Inc. 2019

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.