

## Features

- Small foot-print THT current sense transformer
- Frequency range from 30kHz to 500kHz
- Primary current rating up to 20 Amps
- Two primary wire for series or parallel configuration
- Operating temperature: -40°C to 125°C
- Primary to secondary isolation: 1500 V<sub>RMS</sub>



Ordering Code	Turns ratio	Current rating (A)	Secondary Rdc	Secondary Inductance	Burden Resistor
			(mΩ) MAX	(mH) MIN	(Ω)
SX03-001	1:1:50	20	550	2.6	50
SX03-002	1:1:100	20	1100	10.6	100
SX03-003	1:1:200	20	2200	42.6	200

### Notes

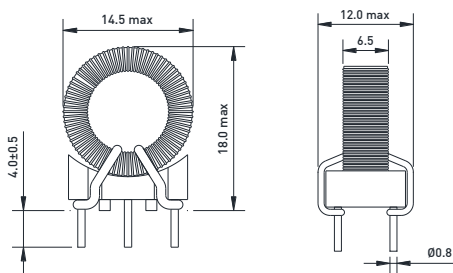
- 1- Electrical specifications at 25°C
- 2- Current rating (DC) based on 40°C temperature rise. Primary windings in parallel
- 3- Operating temperature includes component self-heating
- 4- Inductance measured at 10kHz, 10mVac.
- 5- Recommended burden resistor for 20Amps. Primary windings in parallel

To calculate burden resistor use following formula:

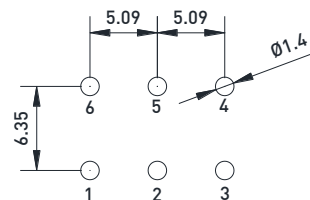
$$R_b (\Omega) = \frac{V_{out} \cdot N}{I_{peak\_primary}}$$

### Dimensions

All dimensions in mm

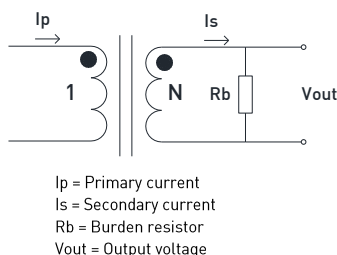


### Recommended PCB layout

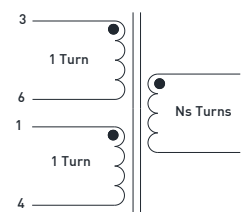


View in mounting direction

### Application circuit



### Schematic



Revised: 18/09/2013

Specifications subject to change without notice