

Features

- Low profile THT current sense transformer
- Frequency range from 30kHz to 300kHz
- 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_{RMS}



Ordering Code	Turns ratio	Current rating (A)	Secondary Rdc	Secondary Inductance	Burden Resistor
			(mΩ) MAX	(mH) MIN	(Ω)
SX-02-001	1:1:50	20	520	4.0	50
SX-02-002	1:1:100	20	1050	16.0	100
SX-02-003	1:1:200	20	2080	64.0	200

Notes

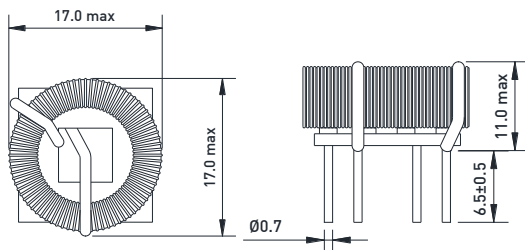
- 1- Electrical specifications at 25°C
- 2- Current rating (DC) based on 40°C temperature rise. Primary windings in parallel
- 3- Operating temperature includes component self-heating
- 4- Inductance measured at 10kHz, 10mVac.
- 5- Recommended burden resistor for 20Amps. Primary windings in parallel

To calculate burden resistor use following formula:

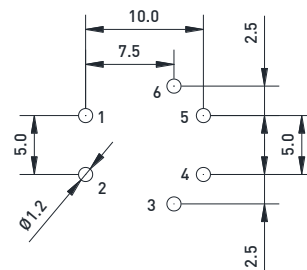
$$R_b (\Omega) = \frac{V_{out} \cdot N}{I_{peak_primary}}$$

Dimensions

All dimensions in mm

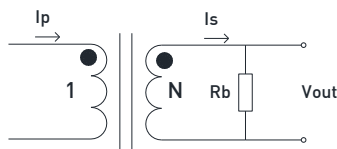


Recommended PCB layout



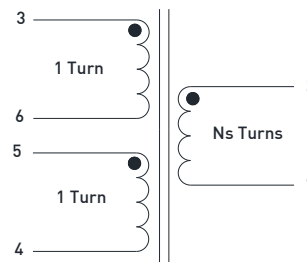
View in mounting direction

Application circuit



Ip = Primary current
Is = Secondary current
Rb = Burden resistor
Vout = Output voltage

Schematic



Revised: 13/08/2013

Specifications subject to change without notice