

SX-01 SMD Current Sense Transformers

Features

- Small footprint and low profile SMT component
- Frequency range from 50kHz to 500kHz
- Primary current rating up to 15 Amps
- Two primary wire for series or parallel configuration
- Operating temperature: -40°C to 125°C
- Primary to secondary isolation: 700 V_{RMS}



Part Number	Turns ratio	Current rating (A)	Secondary Rdc (mΩ) MAX	Secondary Inductance (mH) MIN	Burden Resistor
SX-01-100050	1:1:50	15	380	4.6	25
SX-01-100100	1:1:100	15	930	18.5	50
SX-01-100200	1:1:200	15	3900	65	100

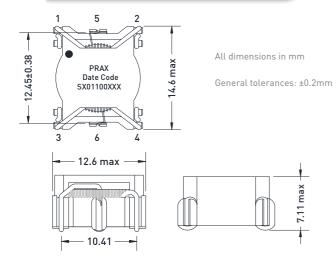
Notes

- 1- Electrical specifications at 25°C
- 2- Current rating based on 40°C temperature rise. Primary windings in parallel
- 3- Operating temperature includes component self-heating
- 4- Inductance measured at 100kHz, 20mVac. SX01100200 at 10kHz, 60mVac
- 5- Recommended burden resistor for 15Amps. Primary windings in parallel

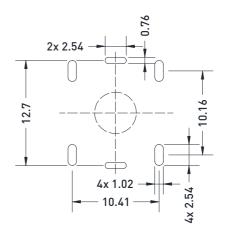
To calculate burden resistor use following formula:

$$Rb\left(\Omega\right) = \frac{Vout \cdot N}{Ipeak_primary}$$

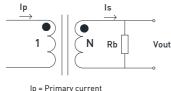
Dimensions



Recommended pad layout



Application circuit



Ip = Primary current

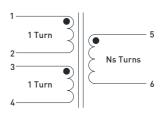
Is = Secondary current Rb = Burden resistor

Vout = Output voltage

Revised: 05/09/2012

Specifications subject to change without notice

Schematic



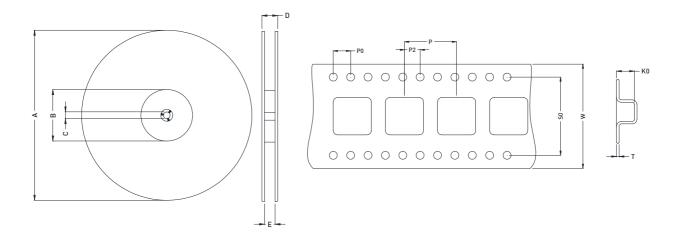


SX-01 SMD Current Sense Transformers

Packaging information

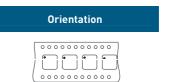
	Tape & reel			
Dalissams farms	13" size			
Delivery form	425 pcs/reel			
	According EIA 481 Std.			

Tape & reel specifications



Reel dimensions (mm)					
A	ВС		D	_ E _	
330	100	13	38.4	32.4	

Tape dimensions (mm)						
w	Р	P0	P2	SO	K0	
32	20	4	2	28.4	7.4	0.4



Revised: 05/09/2012

Specifications subject to change without notice