

Common-mode inductance

SY32TN series

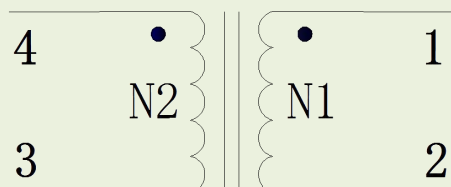
Product features:

- ◎ Excellent impedance frequency characteristics.
- ◎ good temperature stability.
- ◎ High resonant frequency .
- ◎ Large inductance range .

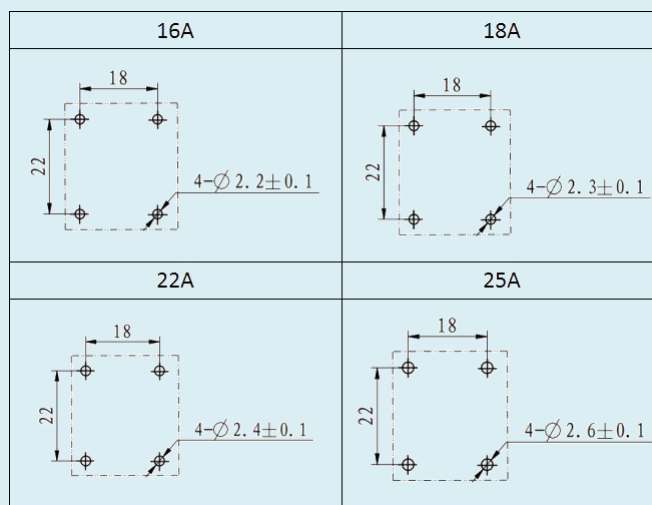
Basic product parameters

Rated current	16A	18A	22A	25A
Rated voltage	250VAC	250VAC	250VAC	250VAC
Inductance(1KHz 0.3V)	12mH Max.	10mH Max.	8mH Max.	5mH Max.
DC resistance	30mΩ Max.	25mΩ Max.	20mΩ Max.	20mΩ Max.
Hi-POT	2000V 1min 1mA	2000V 1min 1mA	2000V 1min 1mA	2000V 1min 1mA
insulation resistance	100MΩ Min.	100MΩ Min.	100MΩ Min.	100MΩ Min.
Operating Temperature	-25°C~+125°C	-25°C~+125°C	-25°C~+125°C	-25°C~+125°C
Recommended foot position	18*22mm	18*22mm	18*22mm	18*22mm

The circuit principle diagram



Installation hole bitmap

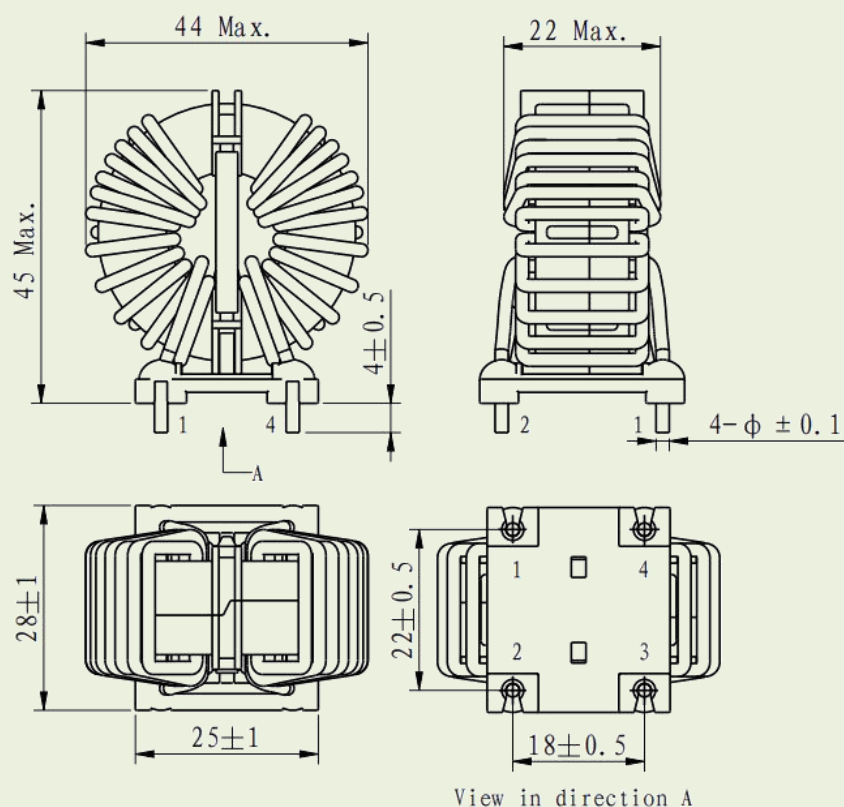


Ordering Information

Nomenclature

SY32TN	-0180	-0250	-001
			Serial number
			Inductance value:2.5mH
			Rated current:18A
			SY:Sanyou Abbreviation; 32:Outer diameter of iron core; TN:Ring nanocrystal

Reference dimension drawing



Undeclared dimensional tolerance : < 1mm : ±0.2mm

1~5mm : ±0.3mm

> 5mm : ±0.4mm

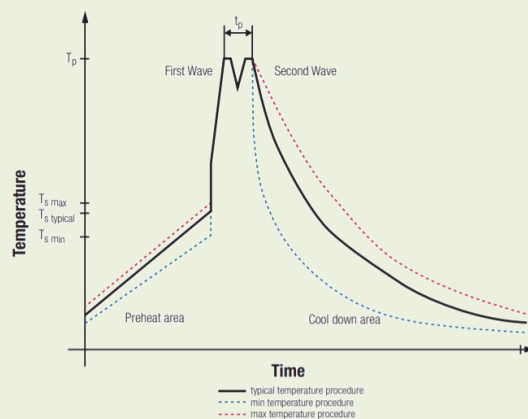


Recommended welding conditions

1、Welding method: wave soldering;

2、Typical welding curve:

Classification Wave Soldering Profile:



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Profile Feature		Pb-Free Assembly
Preheat Temperature Min	$T_{s \min}$	100 °C
Preheat Temperature Typical	$T_{s \text{ typical}}$	120 °C
Preheat Temperature Max	$T_{s \max}$	130 °C
Preheat Time t_s from $T_{s \min}$ to $T_{s \max}$	t_s	70 seconds
Ramp-up Rate	ΔT	150 °C max.
Peak Temperature	T_p	250 °C - 260 °C
Time of actual peak temperature	t_p	max. 10 seconds max. 5 seconds each wave
Ramp-down Rate, Min		~ 2 K/ second
Ramp-down Rate, Typical		~ 3.5 K/ second
Ramp-down Rate, Max		~ 5 K/ second
Time 25 °C to 25 °C		4 minutes

refer to EN61760-1:2006

Statement: This product specification is only for customers' reference. It is subject to change without notice.

For Sanyou, it is impossible to evaluate all the performance parameter requirements of inductance in each specific application field, so customers should select the matching products according to the specific use conditions. If you have any questions, please contact Sanyou for more technical support. However, the customer is only responsible for product selection.

