mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



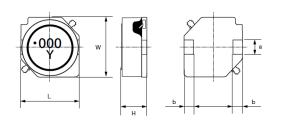
Contact us

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Spec Sheet

SMD Power Inductors (NS series) NS12575T470MN



Features

- Item Summary

47uH±20%, 2.95A, 12.5x12.5x7.5mm

- Lifecycle Stage
 Mass Production
- Standard packaging quantity (minimum)
- Taping Embossed 2000pcs(500pcs*4reel)

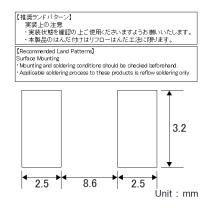
Products characteristics table

Inductance	$47 \text{ uH} \pm 20 \%$	
Case Size (mm)	12.5x12.5	
Rated Current (max)	2.95 A	
Saturation Current (max)	3.76 A	
Temperature Rise Current (max)	2.95 A	
DC Resistance (max)	61.8 mΩ	
DC Resistance (typ)	51.5 mΩ	
LQ Measuring Frequency	100 kHz	
Self Resonant Frequency (min)	6.5 MHz	
Operating Temp. Range	-40 to +125 ℃ (Including-self-generated heat)	
Temperature characteristic (Inductance change)	± 15 %	
RoHS2 Compliance (10 subst.)	Yes	
REACH Compliance (173 subst.)	Yes	
Halogen Free	Yes	
Soldering	Reflow	

External Dimensions

Dimension L	12.5 ± 0.3 mm
Dimension W	12.5 ± 0.3 mm
Dimension H	7.5 ±0.35 mm
Dimension a	3.0 ±0.1 mm
Dimension b	2.0 ±0.15 mm

Recommended Land Patterns



The data is reference only. Electrical characteristics vary depending on environment or measurement condition. TAIYO YUDEN reserves the right to make change to the Date at any time without notice. Before making final selection, please check product specification. 2017.05.03

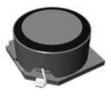
TAIYO YUDEN

unit : inch

SMD Power Inductors (NS series)

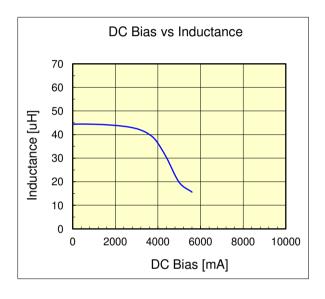
Dimension

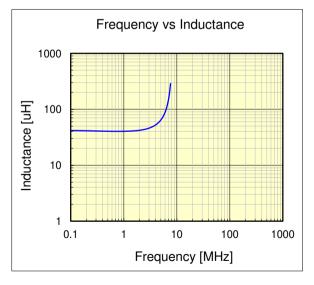
NS12575T470MN

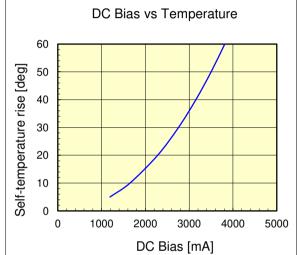


Length : Width : Height :	12.5 +	- / - 0.3 - / - 0.3 + / - 0.35	(0.492 +/- 0.012) (0.492 +/- 0.012) (0.295 +/- 0.014)	
Inductance : DC Resistance :	0.0515		ohm (typ / max)	
Saturation Current :		,	,	
Temp. rise Current :			,	
Saturation current typical : 30% reduction from initial L value.				
Temp rise Current typical : Temperature will rise by 40 deg C				

unit : mm







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