

APPLICATION SPECIFIC INDUCTOR

General Description

NLPT4532-U00 is a specific designed transformer for LAN application, which works with NLCM0805 common mode choke to construct traditional LAN solution.

Features

- 10/100/1G/2.5G/10G Ethernet application
- Support PoE application (except for design code with 00)
- Surface Mount Device
- Lead Free & Halogen Free

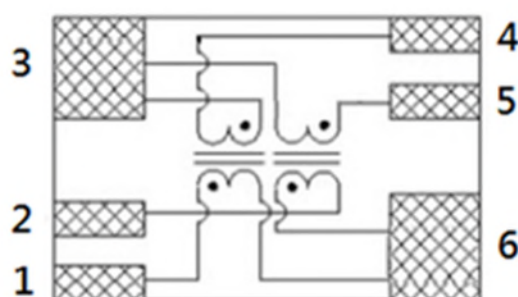


Fig.1 Pin Configuration

NL	PT	4532	-	U00
Brand Code	Type Code	Dimension	N/A	Design Code

DEVICE CHARACTERISTICS

<i>Electrical Characteristics</i>			
Parameter	Symbol	Value	Unit
Operating DC Voltage	V_{DC}	-	V
Max DC Current	I_{DC}	-	mA
Inductance (100KHz)	L_D	120	μH
Winding Capacitance	C_P	35	pF
Turn Ratio	N	1 : 1	-
Insertion Loss	I_L	-1.5	dB
Operation Temperature	T_J	-40 ~ 85	$^{\circ}C$
Storage Temperature	T_S	-40 ~ 85	$^{\circ}C$

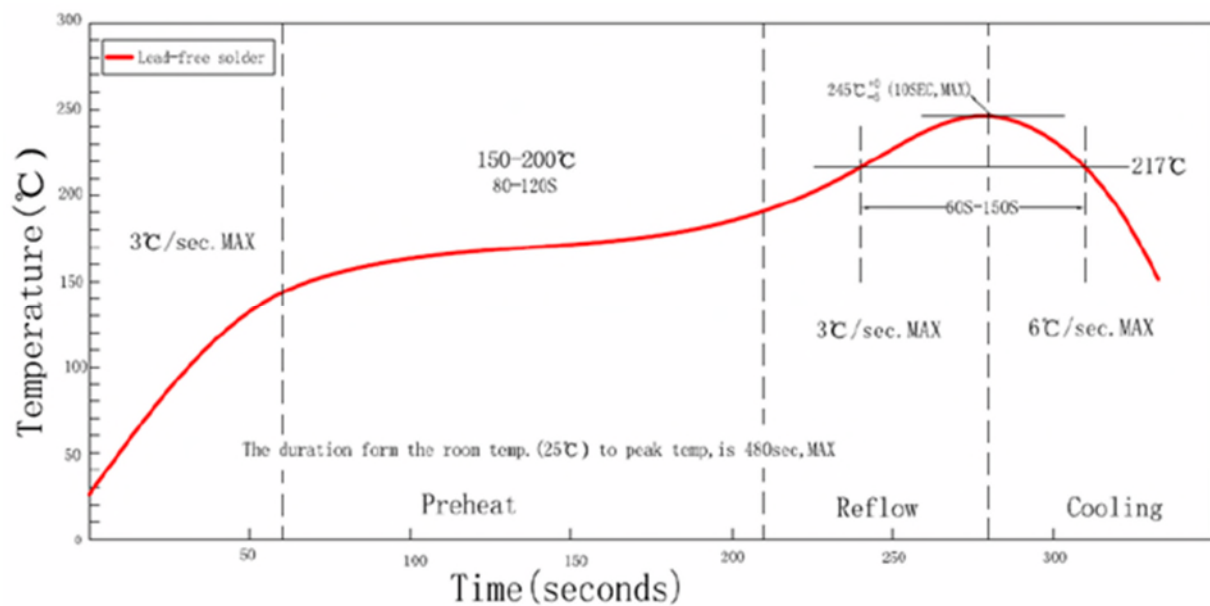


Fig.2 General Reflow Profile

GENERAL INFORMATION

<i>Material & Finish</i>	
Position	Material
Upper Plate	Ferrite
Contact	Copper Alloy
Contact Plating	Tin
Wire	Copper Wire
Core	Ferrite Core

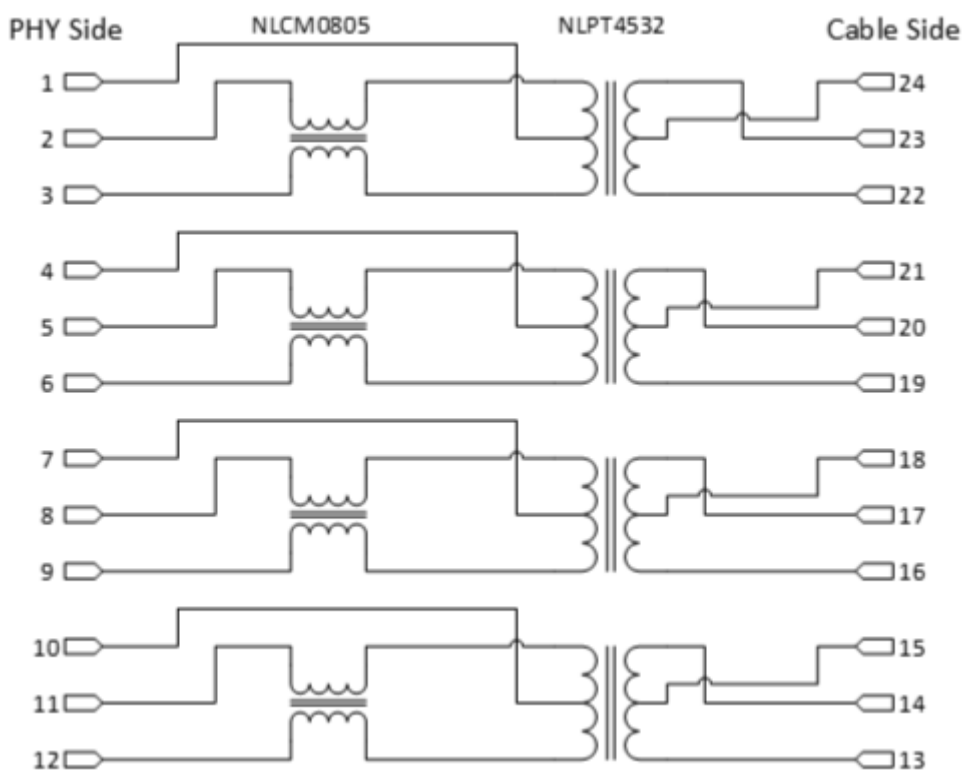
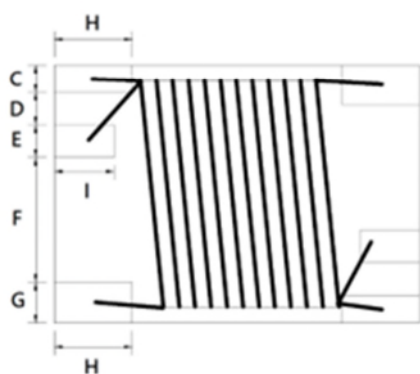


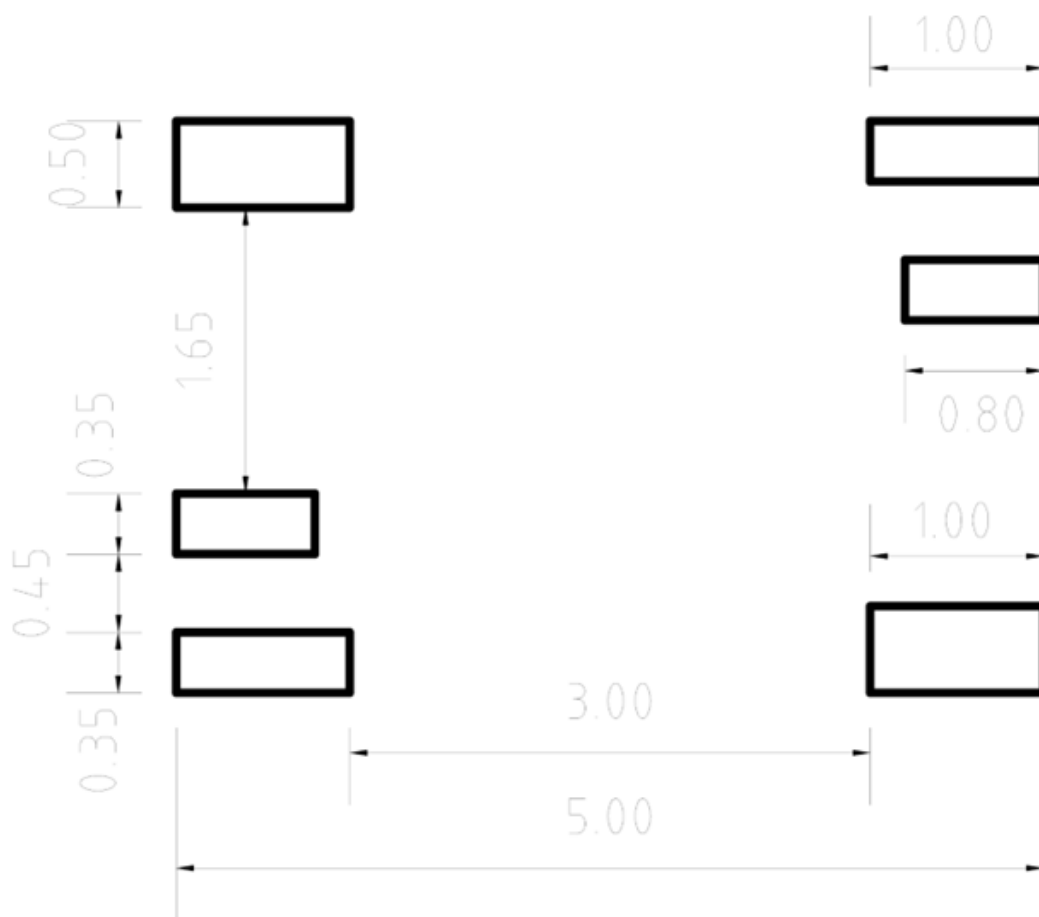
Fig.2 Typical Application

DEVICE OUTLINE

<i>Outline Dimension</i>				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	3.00	3.40	0.118	0.134
B	4.40	4.80	0.173	0.189
C	0.35TYP		0.35TYP	
D	0.41TYP		0.41TYP	
E	0.41TYP		0.41TYP	
F	1.57TYP		1.57TYP	
G	0.51TYP		0.51TYP	
H	0.98TYP		0.98TYP	
I	0.75TYP		0.75TYP	
J	2.90TYP		2.90TYP	



LAYOUT PAD DIMENSION



Revision History	Description
v2.0	Re-organize datasheet layout