

APPLICATION SPECIFIC INDUCTOR

General Description

NLCM0805-U01 is a specific designed Common Mode Choke for discrete LAN transformer, which work with NLDM3216 or NLPT4532 inductor to construct a discrete LAN solution.

Features

- 10/100/1G/2.5G/10G Ethernet application
- High Common Mode Impedance
- Surface Mount Device
- Lead Free & Halogen Free

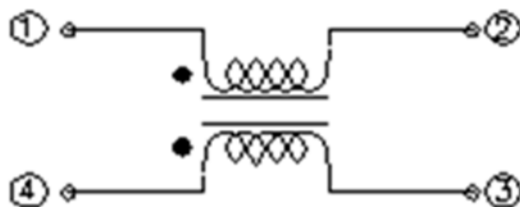


Fig.1 Pin Configuration

NL	CM	0805	-	U01
Brand Code	Type Code	Dimension	N/A	Design Code

DEVICE CHARACTERISTICS

<i>Electrical Characteristics</i>			
Parameter	Symbol	Value	Unit
Common Mode Impedance (100MHz)	Z_C	90	Ω
Rated Voltage	V_R	125	V
Maximum Operation DC Current	I_{DC}	100	mA
DC Resistance	R_{DC}	1	Ω
Operation Temperature	T_J	-40 ~ 85	$^{\circ}\text{C}$
Storage Temperature	T_S	-40 ~ 85	$^{\circ}\text{C}$

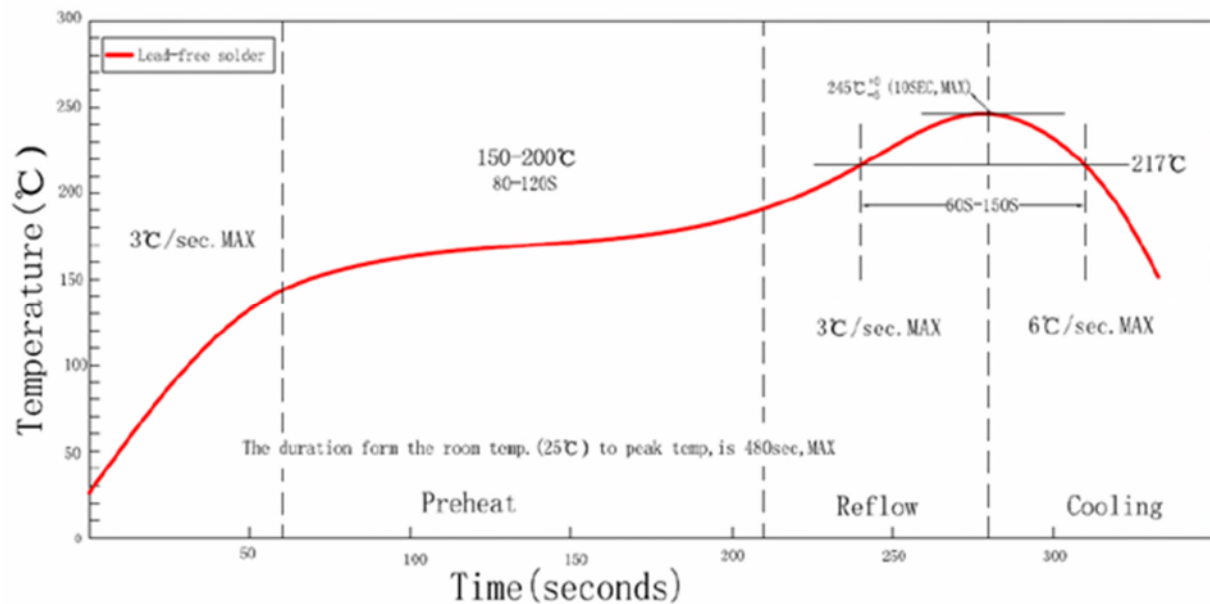


Fig.2 General Reflow Profile

GENERAL INFORMATION

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

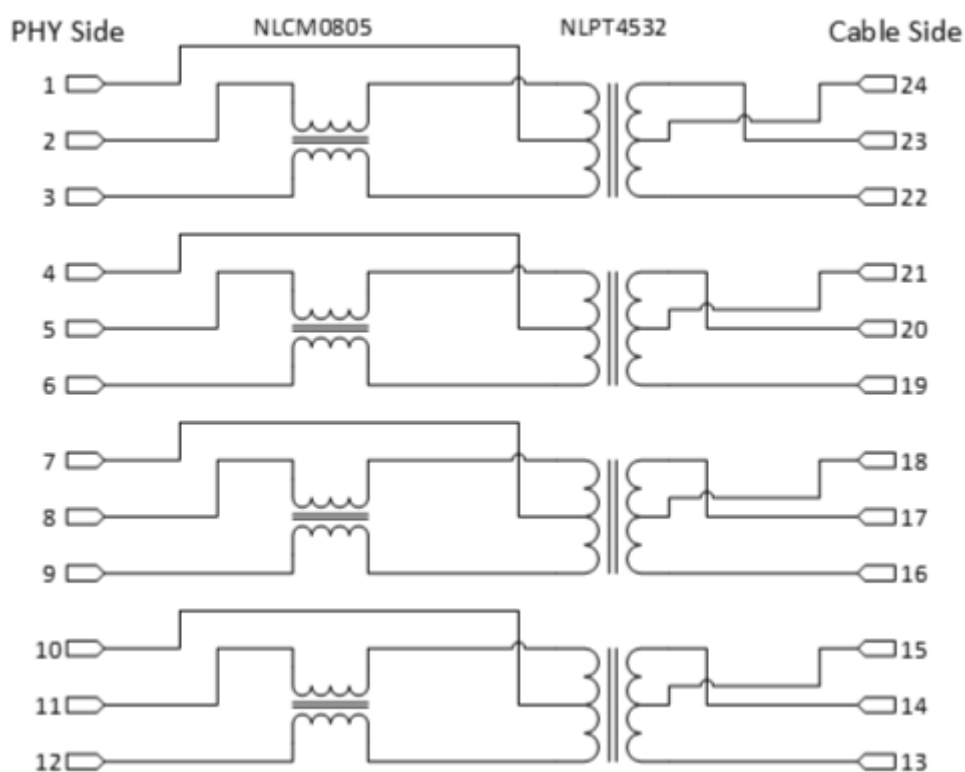
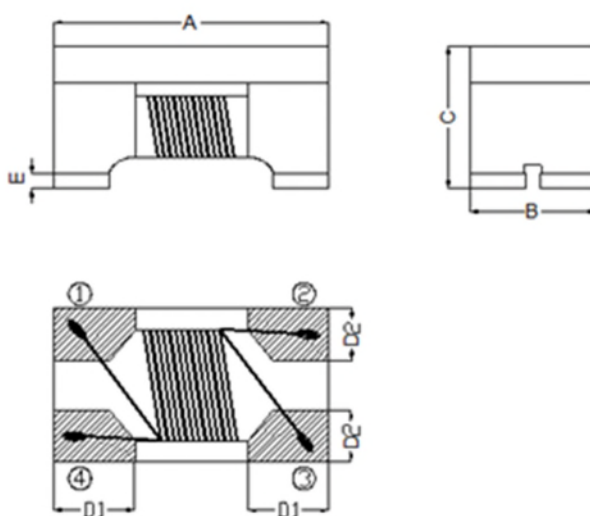


Fig.2 Typical Application

DEVICE OUTLINE

<i>Outline Dimension</i>				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	1.80	2.20	0.07	0.087
B	1.00	1.40	0.039	0.055
C	1.00	1.40	0.039	0.055
D1	0.45	0.65	0.017	0.026
D2	0.41	0.61	0.016	0.024
E	0.15TYP		0.006TYP	



<i>Revision History</i>	<i>Description</i>
v2.0	Re-organize datasheet layout