

APPLICATION SPECIFIC INDUCTOR

General Description

NLDM3216-H0 is a specific designed inductor for discrete LAN transformer, which work with NLDM0805 common mode choke to construct a patented discrete LAN solution.

Features

- 10/100/1G/2.5G Ethernet application
- Surge capability (25A @ 5/310us)
- Surface Mount Device
- Lead Free & Halogen Free

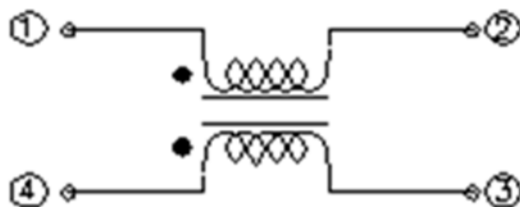


Fig.1 Pin Configuration

NL	DM	3216	-	H0
Brand Code	Type Code	Dimension	N/A	Design Code

DEVICE CHARACTERISTICS

<i>Electrical Characteristics</i>			
Parameter	Symbol	Value	Unit
Surge Rating (5/310us)	I_{PP}	25	A
Maximum Operation DC Current	I_{DC}	100	mA
DC Resistance	R_{DC}	2.0	Ω
Operation Temperature	T_J	-40 ~ 85	$^{\circ}\text{C}$
Storage Temperature	T_S	-40 ~ 85	$^{\circ}\text{C}$

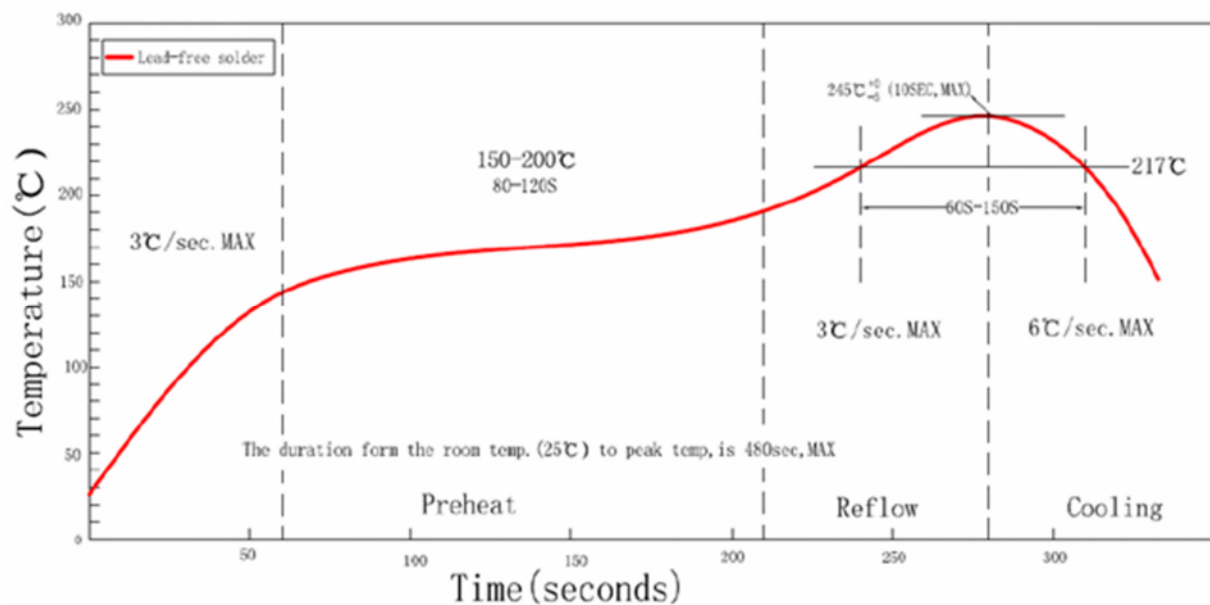


Fig.2 General Reflow Profile

GENERAL INFORMATION

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

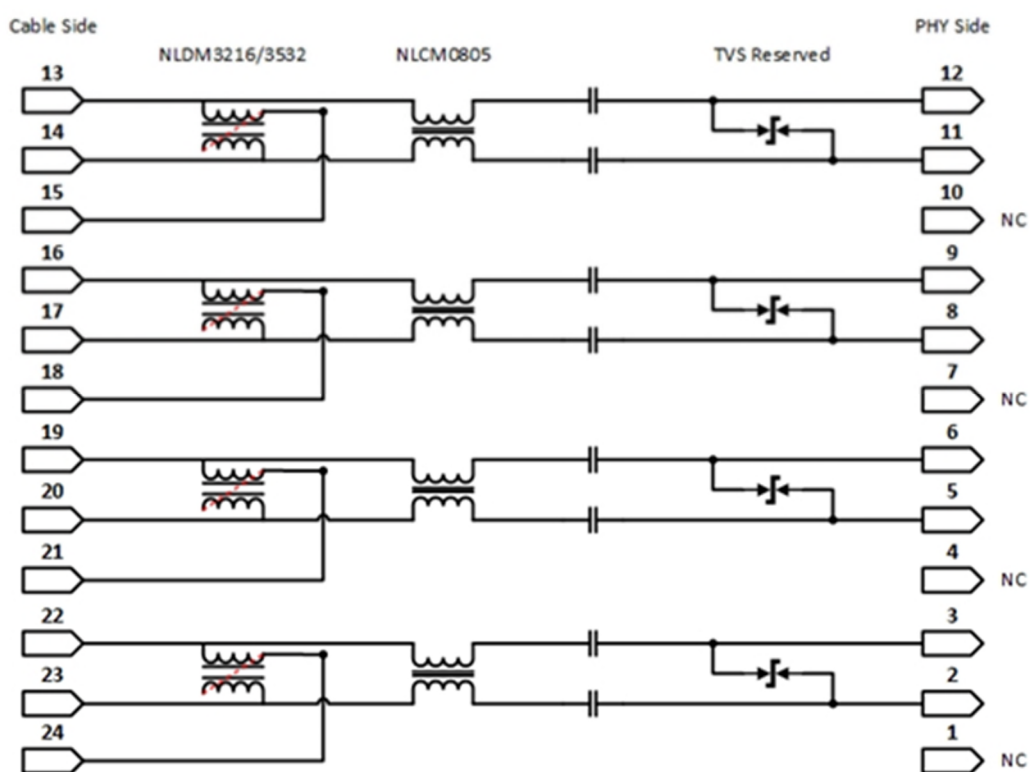
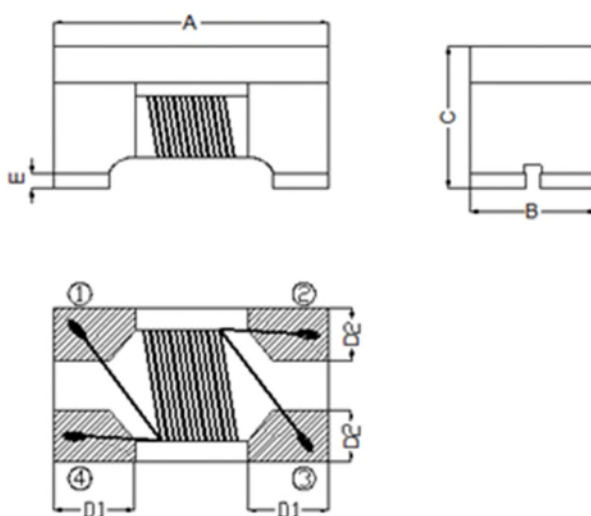


Fig.2 Typical Application

DEVICE OUTLINE

<i>Outline Dimension</i>				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	2.80	3.20	0.110	0.126
B	1.40	1.80	0.055	0.071
C	1.80	2.20	0.070	0.087
D1	0.59	0.69	0.023	0.027
D2	0.58	0.68	0.022	0.027
E	0.15TYP		0.006TYP	



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