

# H1164NL Datasheet

[www.digi-electronics.com](http://www.digi-electronics.com)



<https://www.DiGi-Electronics.com>

|                              |   |
|------------------------------|---|
| DiGi Electronics Part Number | H1164NL-DG  |
| Manufacturer                 | <a href="#">Pulse Electronics</a>                 |
| Manufacturer Product Number  | H1164NL   |
| Description                  | MODULE XFRMR ETHERNET LAN 40SOIC                  |
| Detailed Description         | LAN 10/100 Base-T Pulse Transformer Surface Mount |



Tel: +00 852-30501935

RFQ Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)

DiGi is a global authorized distributor of electronic components.

## Purchase and inquiry

Manufacturer Product Number:

H1164NL

Series:

-

Transformer Type:

LAN 10/100 Base-T

ET (Volt-Time):

-

Mounting Type:

Surface Mount

Height - Seated (Max):

0.230" (5.84mm)

Weight:

0.17 oz (4.84 g)

Manufacturer:

Pulse Electronics

Product Status:

Active

Inductance:

-

Turns Ratio - Primary:Secondary:

-

Size / Dimension:

1.125" L x 0.480" W (28.58mm x 12.19mm)

Operating Temperature:

0°C ~ 70°C

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.31.2000

Moisture Sensitivity Level (MSL):

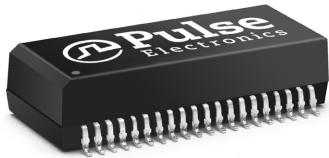
4 (72 Hours)

ECCN:

EAR99

# 10/100Base-TX Transformer Modules

For Auto MDI/MDIX Applications



- RoHS peak reflow temperature rating 245°C
- Symmetrical transmit and receive channels for Auto MDI/MDIX capability
- Approved for use with the Broadcom BCM5226 and Level One LXT9784
- Meets IEEE 802.3 specification

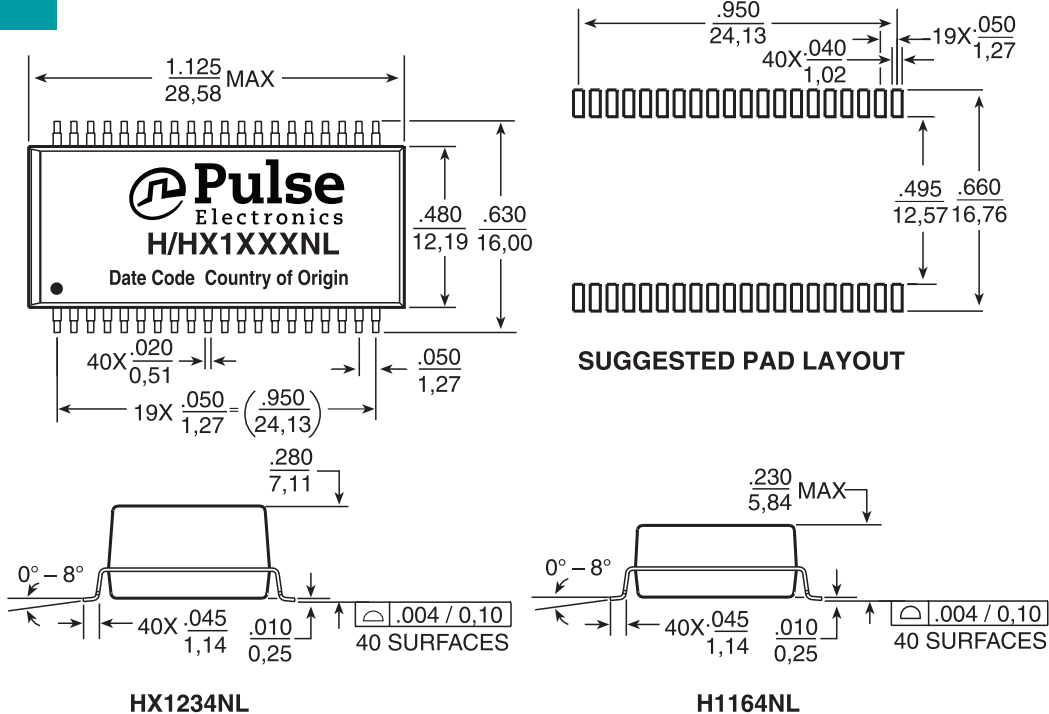
**Electrical Specifications @ 25°C - Operating Temperature 0°C to 70°C**

| RoHS Compliant Part Number <sup>2</sup> | Insertion Loss (MAX) | Return Loss (dB MIN) |          |        |        |           | Crosstalk (dB MIN) |        |        |         | Differential to Common Mode Rejection (dB MIN) |            | Hipot (Vrms MIN) |
|---|----------------------|----------------------|----------|--------|--------|-----------|--------------------|--------|--------|---------|--|------------|------------------|
|   |                      | 0.1-100 MHz          | 2-30 MHz | 40 MHz | 50 MHz | 60-80 MHz | 1 kHz              | 30 MHz | 60 MHz | 100 MHz | 1-60 MHz                                       | 60-200 MHz |                  |
| H1164NL <sup>3d</sup>                   | -1.0                 | -18                  | -14.4    | -13.1  | -12    | -65       | -45                | -40    | -33    | -37     | -25  | 1500       |                  |
| HX1234NL <sup>1,3d</sup>                | -1.4                 | -18                  | -14.4    | -13.1  | -12    | -65       | -45                | -40    | -33    | -37     | -25  | 1500       |                  |

1. Operating Temperature -40°C to +85°
2. For Tape & Reel packaging, add "T" suffix to the end of the part number when ordering, (Ex. H1164NLT)
3. MSL = Moisture Sensitivity Level a=1 b=2 c=3 d=4

## Mechanicals

**H1164NL, HX1234NL**



Weight .....4.8 grams  
 Tape & Reel ..... 250/reel  
 Tube .....15/tube

Dimensions:  $\frac{\text{Inches}}{\text{mm}}$  Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0,25}$

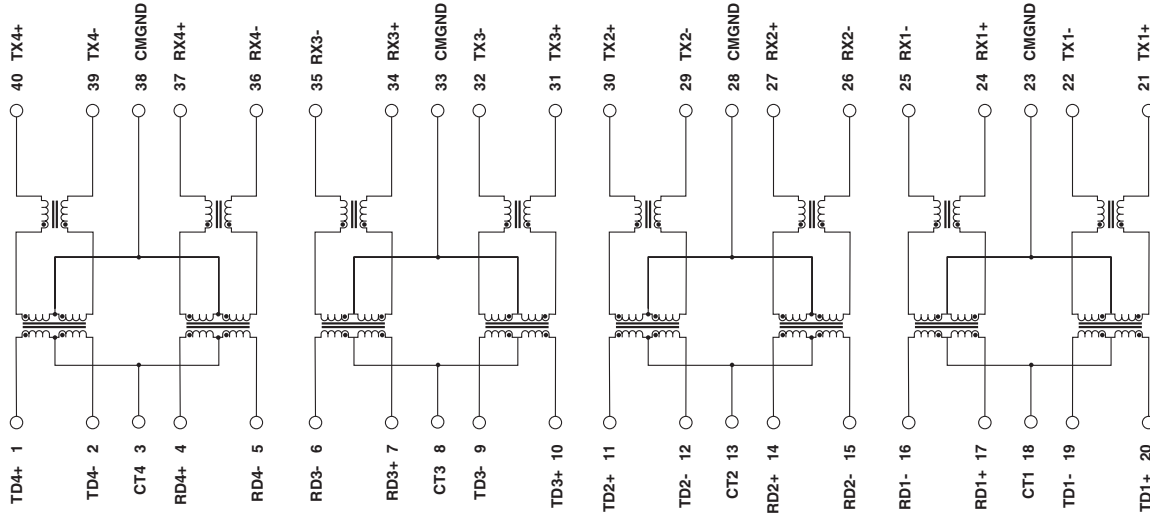
USA 858 674 8100    Germany 49 7032 7806 0    Singapore 65 6287 8998    Shanghai 86 21 62787060    China 86 755 33966678    Taiwan 886 3 4356768

# 10/100Base-TX Transformer Modules

For Auto MDI/MDIX Applications

## Schematic

H1164NL, HX1234NL



### For More Information:

Americas - [prodinfonetworkamericas@pulseelectronics.com](mailto:prodinfonetworkamericas@pulseelectronics.com) | Europe - [comms-Apps-Europe@pulseelectronics.com](mailto:comms-Apps-Europe@pulseelectronics.com) | Asia - [prodinfonetworkapac@pulseelectronics.com](mailto:prodinfonetworkapac@pulseelectronics.com)

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2019. Pulse Electronics, Inc. All rights reserved.

## OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we stricly control the quality of products and services. Welcome your RFQ to

Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)



Tel: +00 852-30501935

RFQ Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)

DiGi is a global authorized distributor of electronic components.