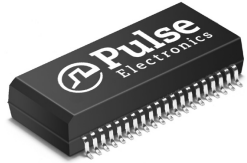


# 10/100Base-TX Dual Port Transformer Modules

For Use with Transceivers Requiring 1:1 Transmit and Receiving Turns Ratios



- RoHS reflow temperature rating 245°C
- Meets IEEE 802.3 specification
- Some models offer AutoMDIX capability

| Electrical Specifications @ 25°C - Operating Temperature 0°C to +70°C |                         |                      |          |        |        |                    |       |        |        |                                                |          |                  |
|-----------------------------------------------------------------------|-------------------------|----------------------|----------|--------|--------|--------------------|-------|--------|--------|------------------------------------------------|----------|------------------|
| Part Number <sup>1</sup>                                              | Insertion Loss (dB TYP) | Return Loss (dB TYP) |          |        |        | Crosstalk (dB TYP) |       |        |        | 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 MHz | 30 MHz | 60 MHz | 100 MHz                                        | 1-60 MHz | 60-200 MHz       |
| H1028NL <sup>2d</sup>                                                 | -0.5                    | -21                  | -17      | -14.5  | -12    | -65                | -55   | -45    | -35    | -45                                            | -35      | 1500             |
| H1200NL <sup>2d</sup>                                                 | -1.0                    | -16                  | -14.4    | -13    | -12    | -50                | -45   | -40    | -35    | -37                                            | -35      | 1500             |

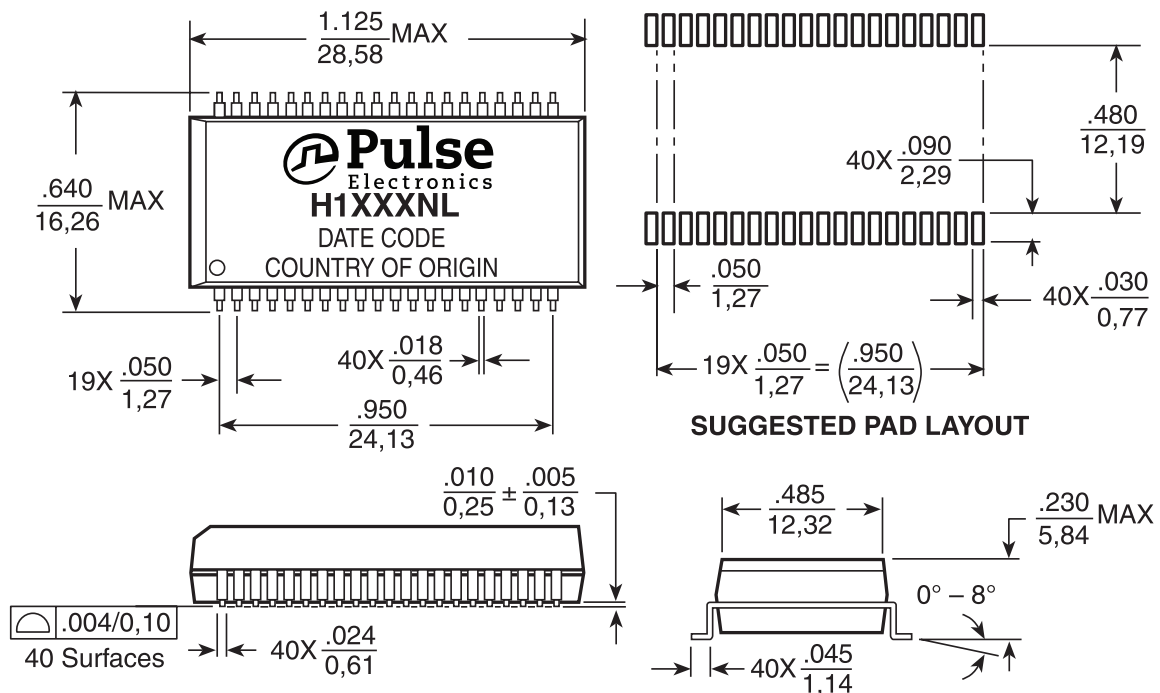
1. When ordering Tape and Reel packaging, add suffix "T" to the end of the part number, for example, H1028NLT.

2. MSL = Moisture Sensitivity Level a=1, b=2, c=3, d=4

3. Suitable for AutoMDIX applications

## Mechanical

### H1028NL



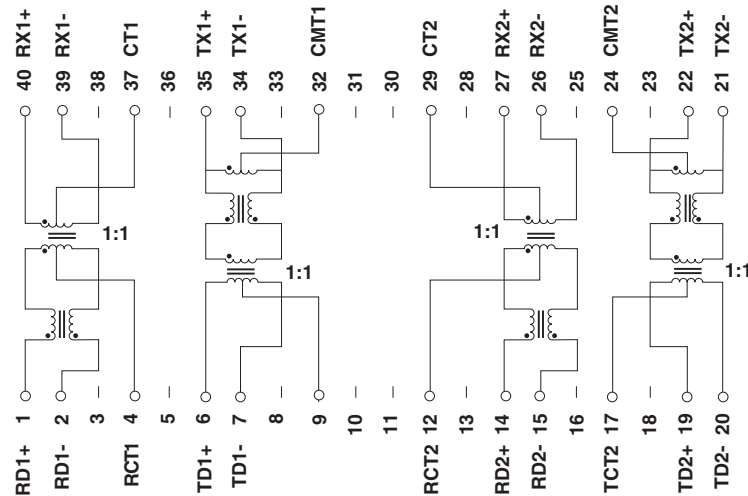
**Dimensions:**  $\frac{\text{Inches}}{\text{mm}}$  Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0,25}$

# 10/100Base-TX Dual Port Transformer Modules

For Use with Transceivers Requiring 1:1 Transmit and Receiving Turns Ratios

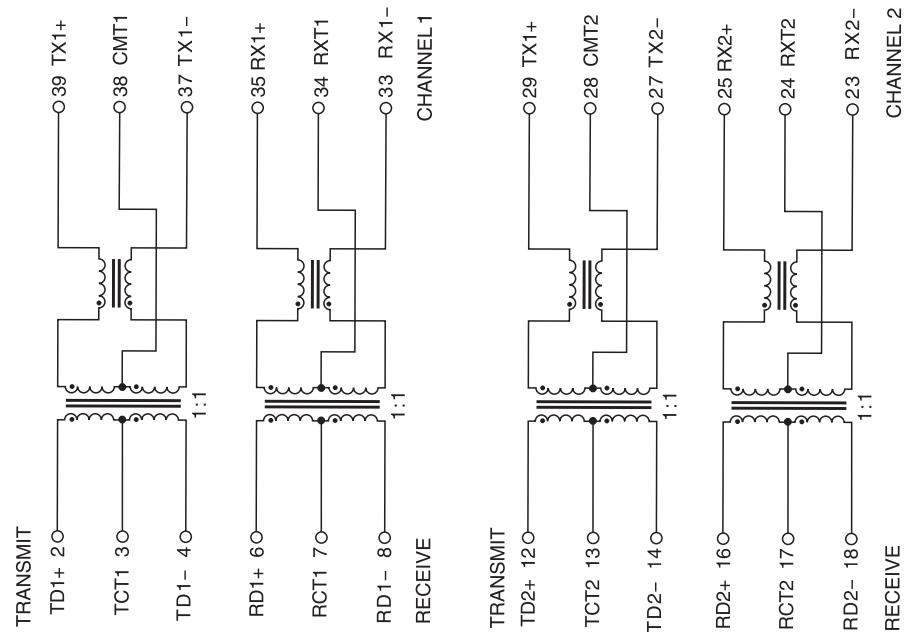
## Schematics

### H1028NL



H1028 does not have the additional choke.

### H1200NL

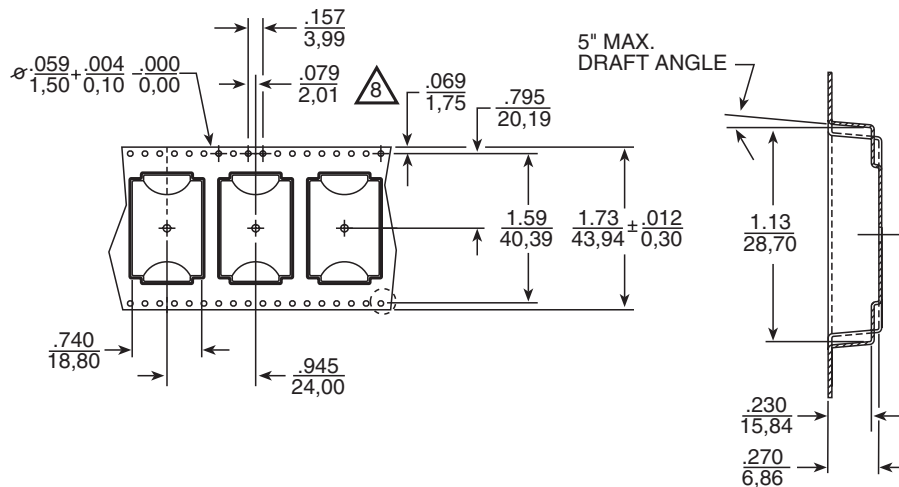


# 10/100Base-TX Dual Port Transformer Modules

For Use with Transceivers Requiring 1:1  
Transmit and Receiving Turns Ratios

## Tape & Reel Specifications

HTXXXNL



**Weight** .....4.0 grams TYP  
**Tape & Reel** .....250/reel  
**Tube** .....15/tube

### 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)

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