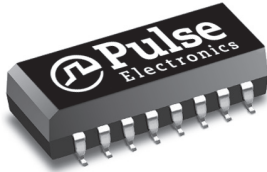


# 10/100 Base-T Single Port Transformer Modules

With 1:1 Transmit Turns Ratios



- RoHS peak reflow temperature rating: 245°C
- Compatible with Broadcom, Intel, Microtel, National Semiconductor, ICS, and TDK Transceivers
- Meets IEEE 802.3 specification

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

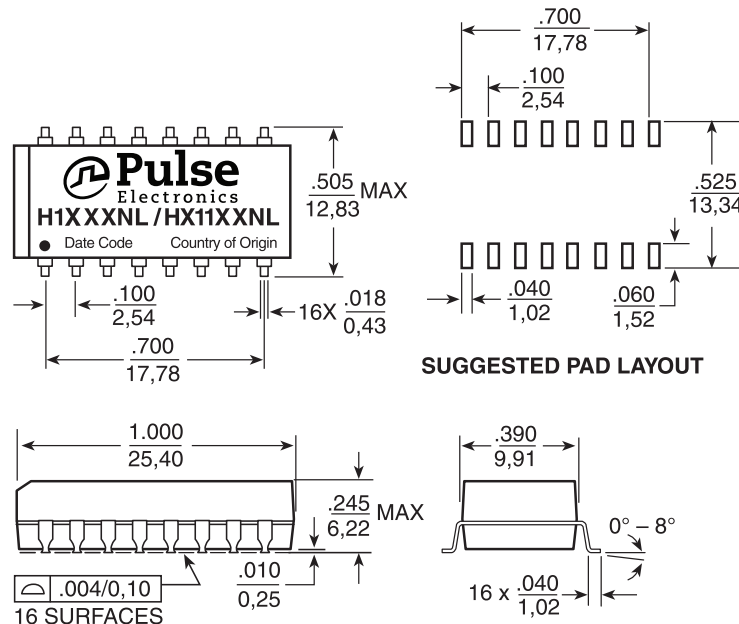
| RoHS<br>Compliant<br>Part Number <sup>3</sup> | Insertion<br>Loss<br>(dB MAX) | Return Loss<br>(dB MIN @ 100 Ω) |        |        |           | Differential to Common<br>Mode Rejection<br>(dB MIN) |        |         | Crosstalk<br>(dB TYP) |        |         | Hipot<br>(Vrms MIN) |
|-----------------------------------------------|-------------------------------|---------------------------------|--------|--------|-----------|------------------------------------------------------|--------|---------|-----------------------|--------|---------|---------------------|
|                                               | 0.1-100 MHz                   | 1-30 MHz                        | 40 MHz | 50 MHz | 60-80 MHz | 30 MHz                                               | 60 MHz | 100 MHz | 30 MHz                | 60 MHz | 100 MHz |                     |
| H1012NL <sup>4c</sup>                         | -1.0                          | -20                             | -20    | -18    | -14       | -42                                                  | -36    | -33     | -50                   | -40    | -40     | 1500                |
| H1086NL <sup>4c</sup>                         | -1.0                          | -22                             | -20    | -18    | -12       | -45                                                  | -40    | -35     | -50                   | -40    | -40     | 1500                |
| HX1148NL <sup>1,4c</sup>                      | -1.5                          | -18                             | -13.5  | -11.5  | -10       | -42                                                  | -37    | -33     | -50                   | -40    | -40     | 1500                |

## Notes:

- HX = Operating temperature: -40 + 85 C.
- Unless specified, operating temperature is 0° to 70° C.
- When ordering Tape & Reel packaging, add a "T" suffix to the end of the part number, e.g. H1012NLT.
- MSL = Moisture Sensitivity Level: a=1, b=2, C=3, d=4

## Mechanical

### H1012NL, H1086NL, HX1148NL



Weight .....3.0 grams

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

### With 1:1 Transmit Turns Ratios

## H1012NL, H1086NL, HX1148NL



## H1012NL, H1086NL, HX1148NL

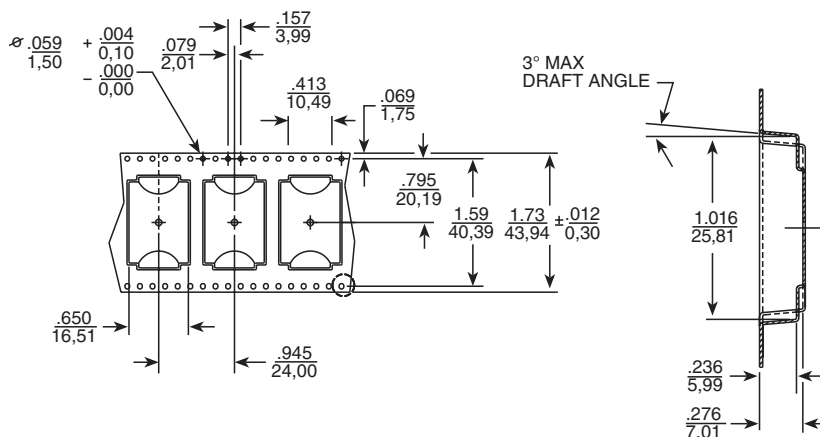


# 10/100 Base-T Single Port Transformer Modules

With 1:1 Transmit Turns Ratios

## Tape & Reel Specifications

H1012NL, H1086NL, HX1148NL



Weight .....3.0 grams  
Tube .....20/tube  
Tape & Reel .....300/reel

### 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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