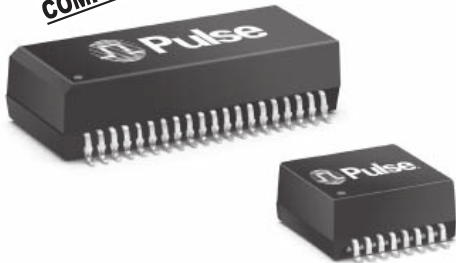






10/100BASE-TX TRANSFORMER MODULES

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

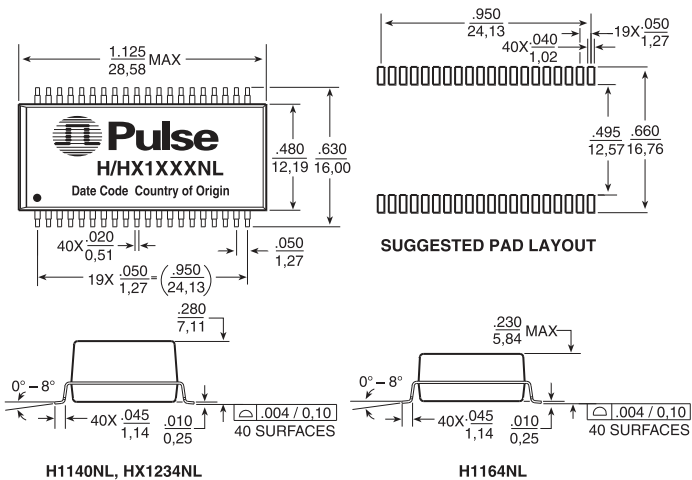
Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

| RoHS Compliant Part Number ² | Insertion Loss (MAX) | Return Loss (dB MIN) | | | | Crosstalk (dB MIN) | | | | Differential to Common Mode Rejection (dBMIN) | | 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 | |
| H1140NL ^{3c} | -1.0 | -18 | -14.4 | -13.1 | -12 | -65 | -50 | -40 | -35 | -40 | -35 | 1500 |
| H1141NL ^{3c} | -1.0 | -18 | -14.4 | -13.1 | -12 | -65 | -50 | -40 | -35 | -40 | -35 | 1500 |
| H1164NL ^{3d} | -1.0 | -18 | -14.4 | -13.1 | -12 | -55 | -45 | -40 | -33 | -37 | -25 | 1500 |
| HX1234NL ^{1,3c} | -1.4 | -18 | -14.4 | -13.1 | -12 | -55 | -45 | -40 | -33 | -37 | -25 | 1500 |

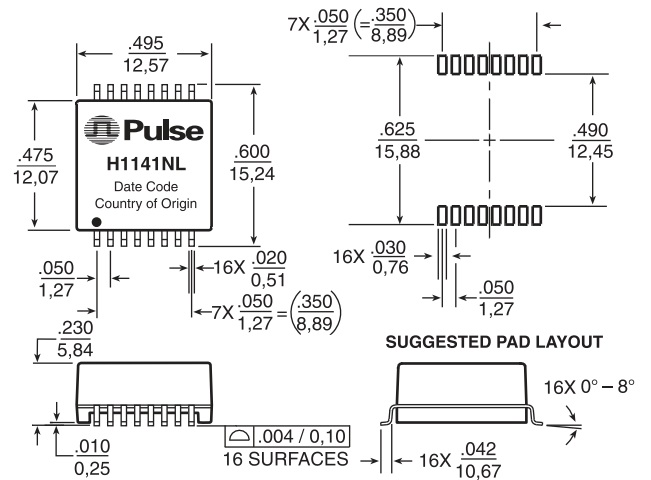
1. Operating Temperature -40°C to +85°C C_{ww}
2. For Tape & Reel packaging, add a "T" suffix to the end of the part number when ordering, (Ex: H1164NLT)
3. MSL = Moisture Sensitivity Level a=1 b=2 c=3 d=4

Mechanicals

H1140NL, H1164NL, HX1234NL



H1141NL



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

Weight 1 gram
Tape & Reel 350/reel
Tube 35/tube

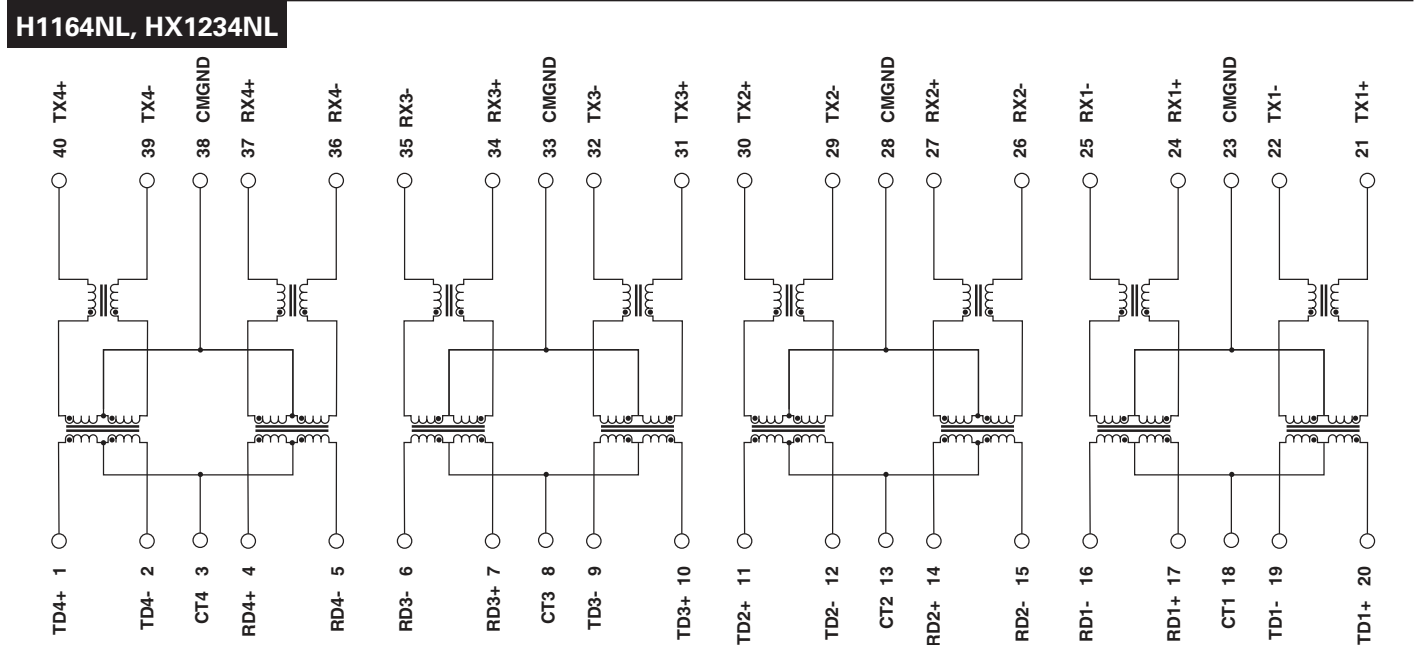
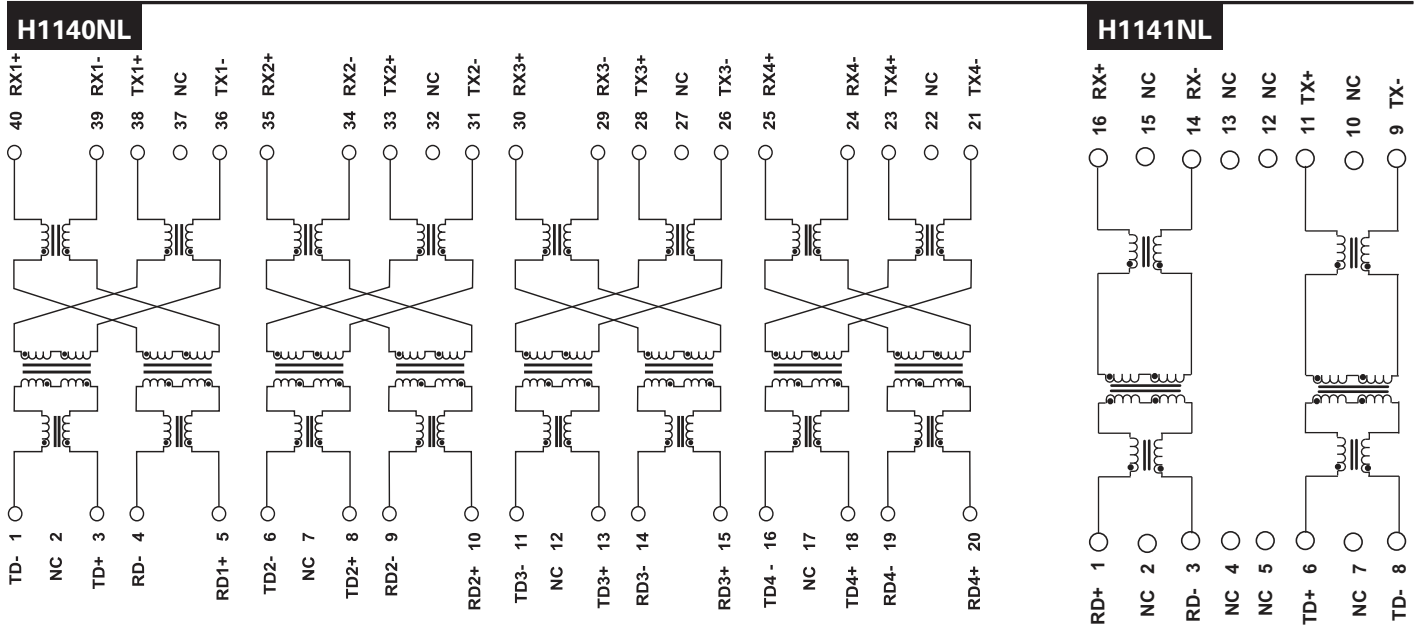
Dimensions: $\frac{\text{Inches}}{\text{mm}}$ Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

10/100BASE-TX TRANSFORMER MODULES

For Auto MDI/MDIX Applications



Schematics



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