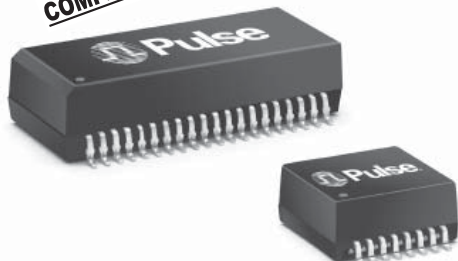


10/100BASE-TX TRANSFORMER MODULES For Auto MDI/MDIX Applications



- 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

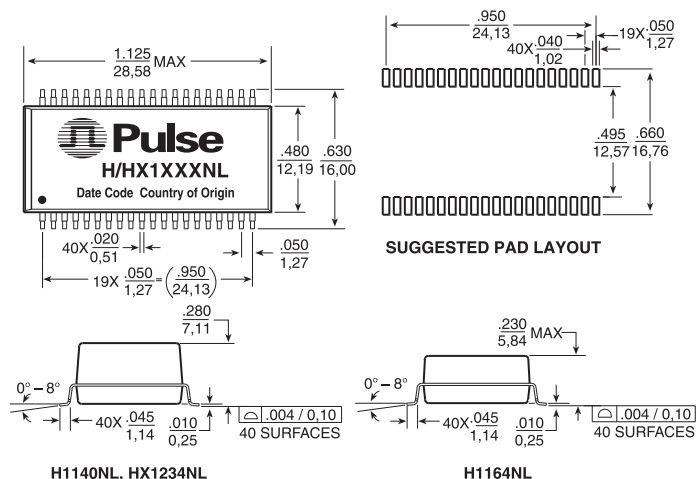
Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

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	60-200 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

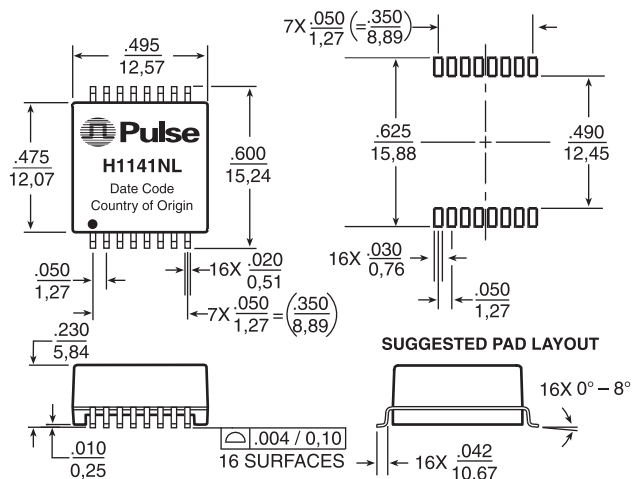
H1140NL, H1164NL, HX1234NL



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

Dimensions: $\frac{\text{Inches}}{\text{mm}}$ Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$

H1141NL



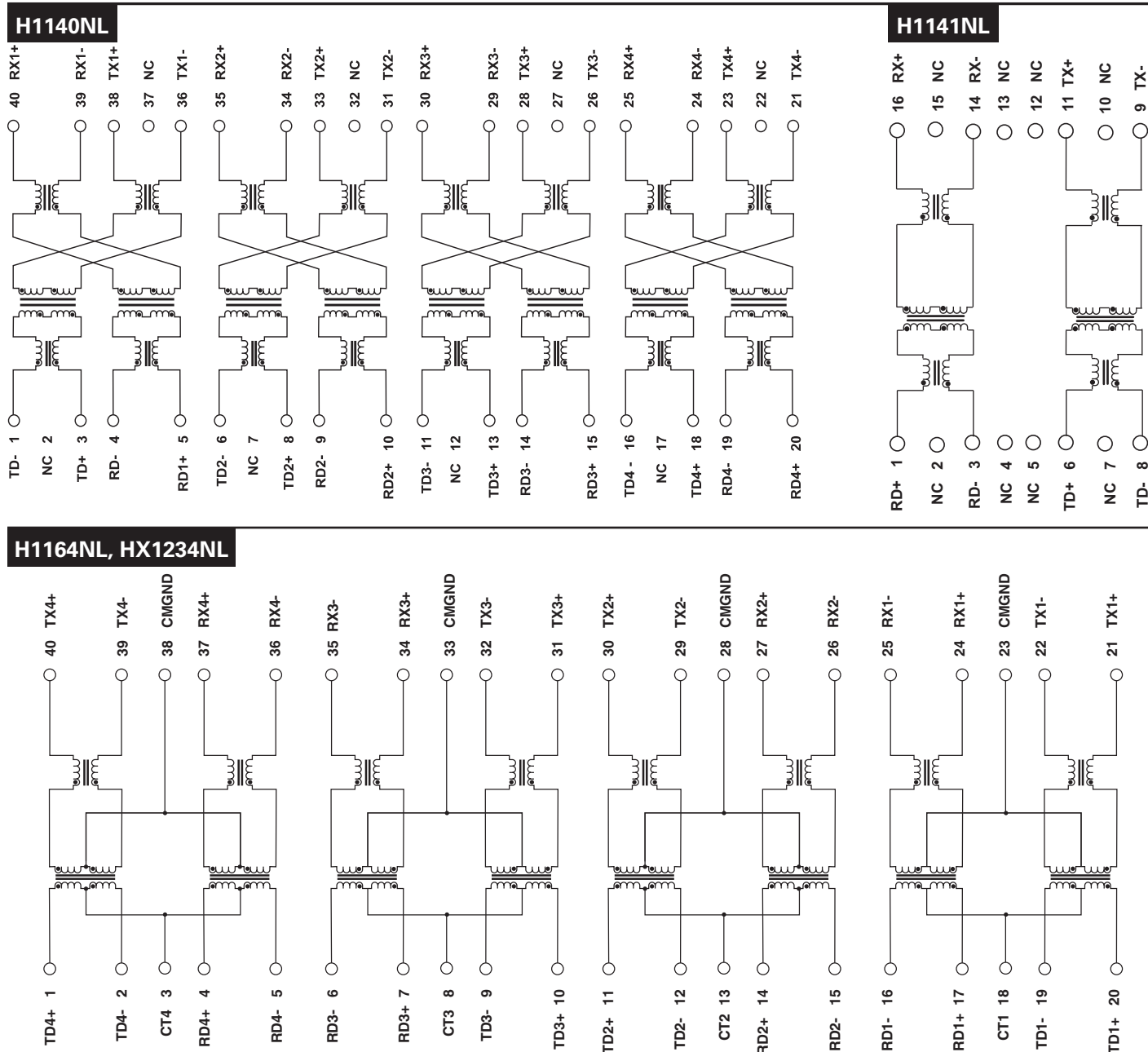
Weight 1 gram
Tape & Reel 350/reel
Tube 35/tube

10/100BASE-TX TRANSFORMER MODULES

For Auto MDI/MDIX Applications



Schematics



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