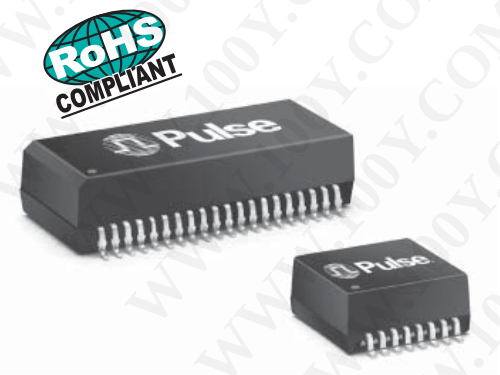
10/100BASE-TX TRANSFORMER MODULES

For Auto MDI/MDIX Applications

Pulse
A TECHNITROL COMPANY



- RoHS peak reflow temperature rating 245°C
- Symmetrical transmit and recieve 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

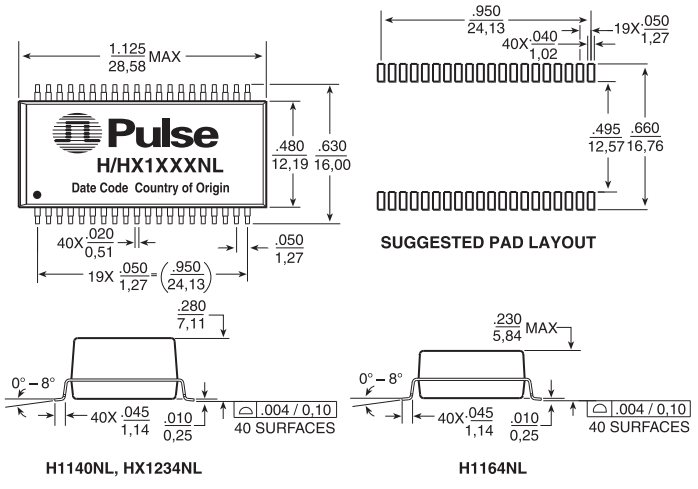
RoHS Compliant Part Number [2]	Insertion Loss (MAX)	Return Loss (dB MIN)				Crosstalk (dB MIN)				Differential to Common Mode Rejection (dBMIN)		Hipot (Vrms MIN)
	0.1-100 MHz	2-30 MHz	40 MHz	50 MHz	60-80 MHz	1 kHZ	30 MHz	60 MHz	100 MHz	1-60 MHz	60-200 MHz	
H1140NL[3c]	-1.0	-18	-14.4	-13.1	-12	-65	-50	-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_{WW}**
2. **For** Tape & Reel packaging, add a **"T"** suffix to the end of the part number when ordering, (Ex: H1164NL**T)**
3. **MSL** = Moisture Sensitivity Level a=1 b=2 c=3 d=4

勝 特 力 材 料 886-3-5753170
胜特力电子(上海) 86-21-34970699
胜特力电子(深圳) 86-755-83298787
Http://www.100y.com.tw

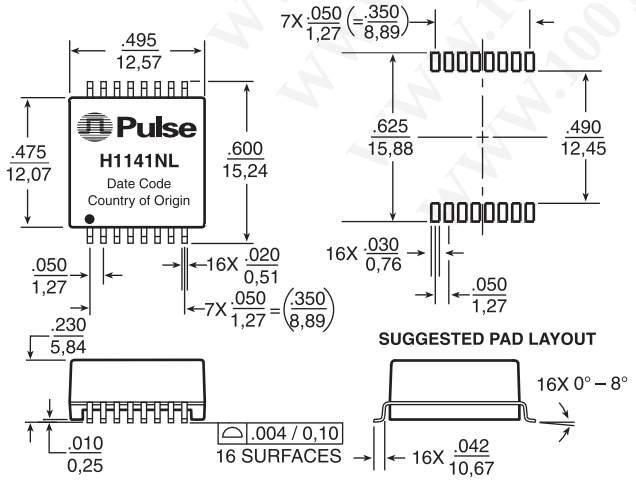
Mechanicals

H1140NL, H1164NL, HX1234NL



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

H1141NL



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

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

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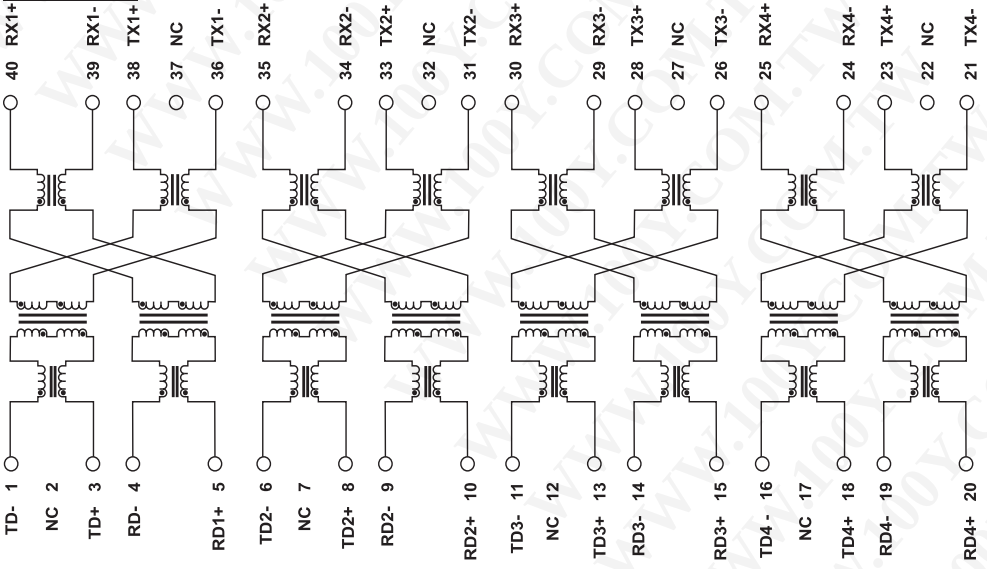
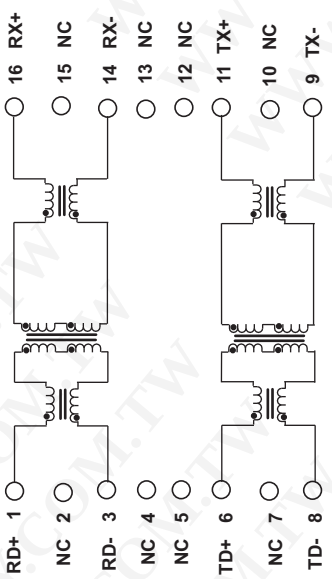
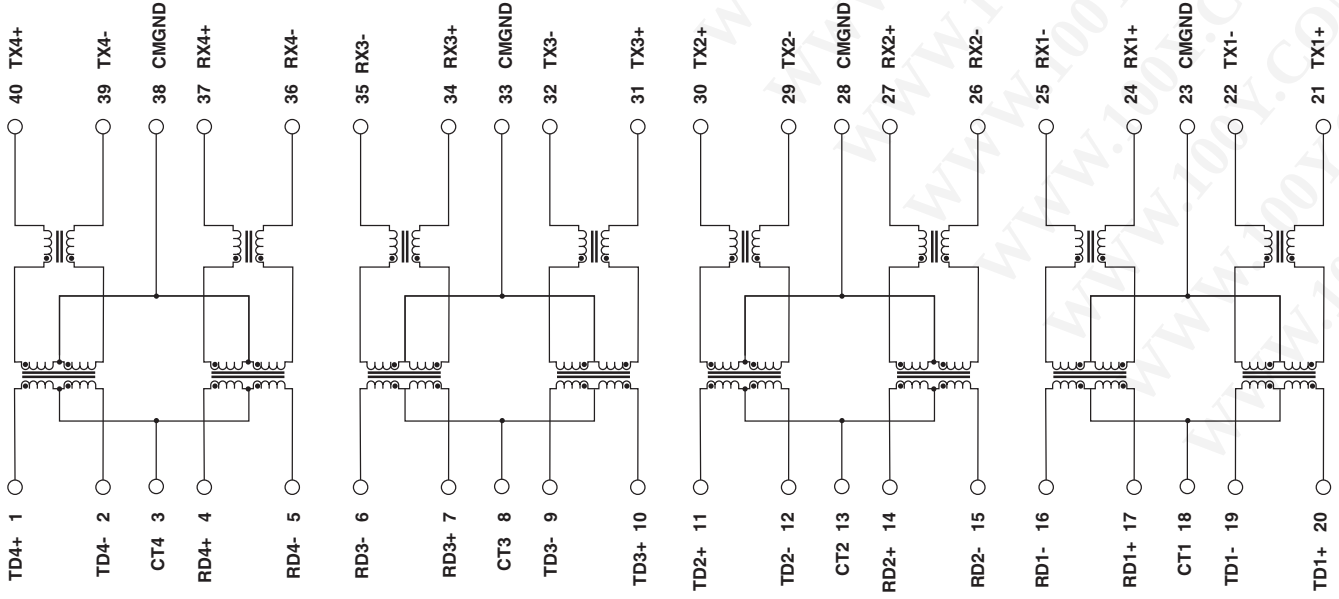
Schematics

H1140NL



H1141NL



H1164NL, HX1234NL