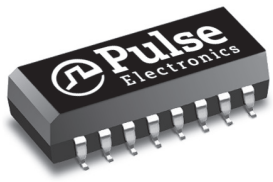
10/100 Base-T Single Port Transformer Modules

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 @ 25ºC - Operating Temperature 0ºC to 70ºC

RoHS Compliant Part Number [3]	Insertion Loss (dB MAX)	Return Loss (dB MIN @ 100 Ω)				Differential to Common Mode Rejection (dB MIN)			Crosstalk (dB TYP)			Hipot (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 [4c]	-1.0	-20	-20	-18	-14	-42	-36	-33	-50	-40	-40	1500
H1086NL [4c]	-1.0	-22	-20	-18	-12	-45	-40	-35	-50	-40	-40	1500
HX1148NL [1, 4c]	-1.5	-18	-13.5	-11.5	-10	-42	-37	-33	-50	-40	-40	1500

Notes:

1. HX = Operating temperature: -40 + 85 C.

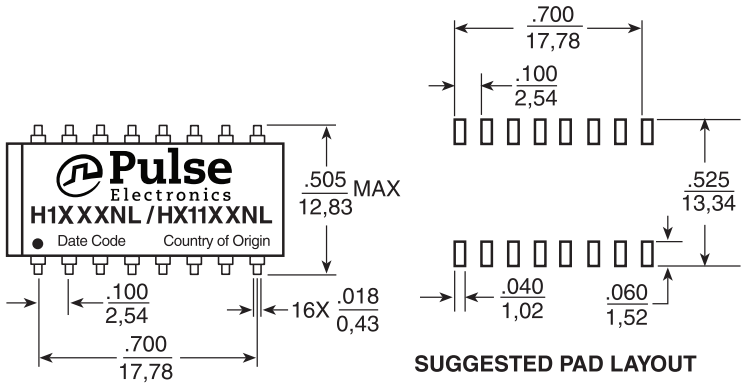
2. Unless specified, operating temperature is 0˚ to 70˚C.

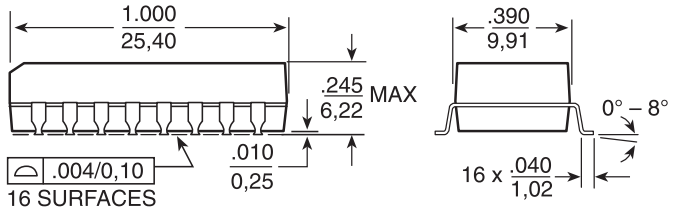
3. When ordering Tape & Reel packaging, add a "T" suffix to the end of the part number, e.g. H1012NLT.

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

Mechanical

H1012NL, H1086NL, HX1148NL





Weight .....3.0 grams

Dimensions: Inches / mm Unless otherwise specified, all tolerances are ± .010 / 0,25

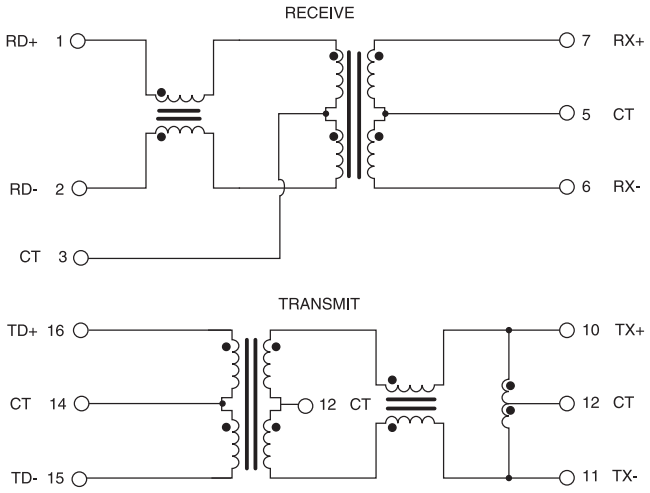
USA 858 674 8100 Germany 49 7032 7806 0 Singapore 65 6287 8998 Shanghai 86 21 62787060 China 86 755 33966678 Taiwan 886 3 4356768

10/100 Base-T Single Port Transformer Modules

With 1:1 Transmit Turns Ratios

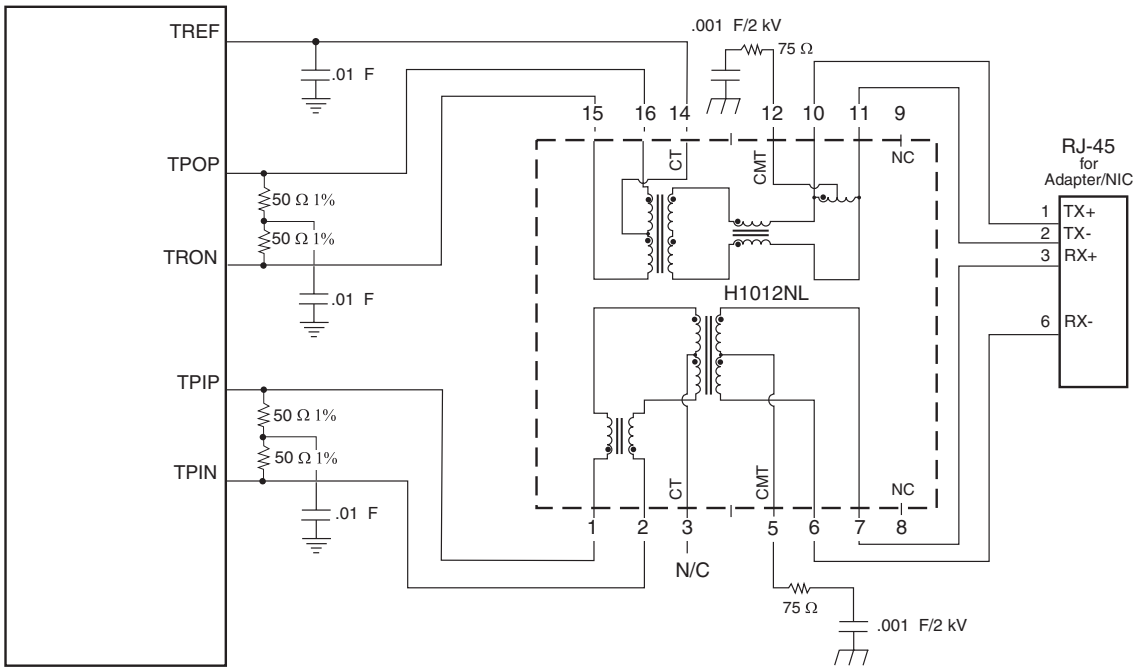
Schematic

H1012NL, H1086NL, HX1148NL



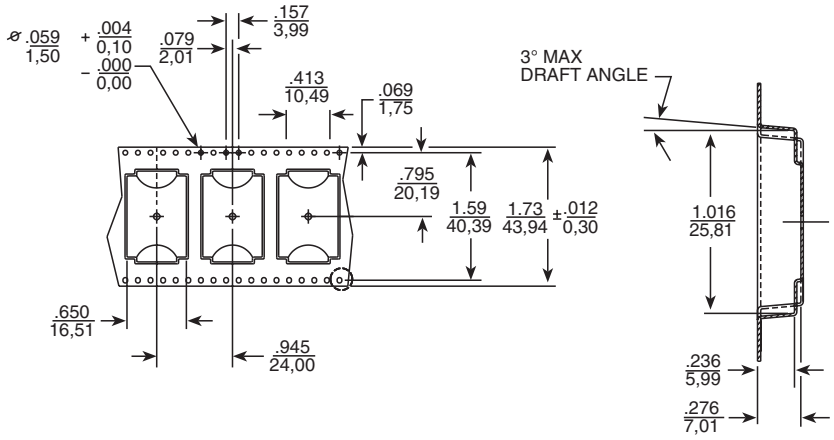
Typical Application Circuits

H1012NL, H1086NL, HX1148NL



Tape & Reel Specifications

H1012NL, H1086NL, HX1148NL



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

For More Information:
Americas - prodinfonetworkamericas@pulseelectronics.com | **Europe -** comms-Apps-Europe@pulseelectronics.com | **Asia -** prodinfonetworkapac@pulseelectronics.com

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