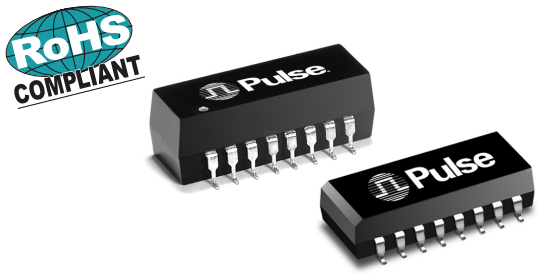
10/100 BASE-T SINGLE PORT TRANSFORMER MODULES

With 1:1 Transmit Turns Ratios



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

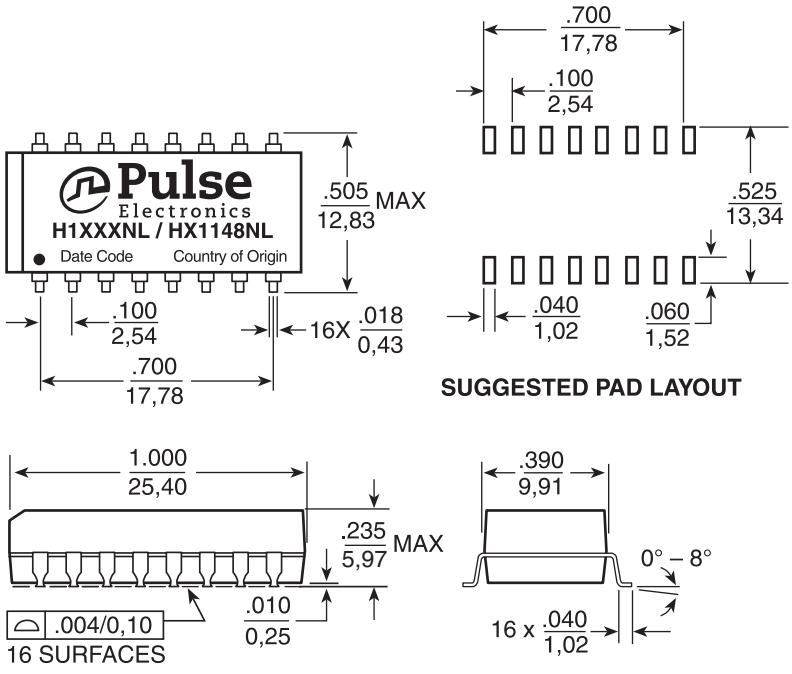
Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

RoHS Compliant Part Number	Insertion Loss (dB MAX)	Return Loss (dB MIN @ 100 Ω)				Differential to Common Mode Rejection (dB MIN)			Crosstalk (dB TYP)			Hipot (V_{rms} 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[4d]	-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
H1138NL[4a]	-0.8	-18	-16	-14	-12	42	-37	-33	-50	-40	-40	1500
HX1148NL[1, 4d]	-1.5	-18	-13.5	-11.5	-10	-42	-37	-33	-50	-40	-40	1500

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. H1012NL**T**
4. **MSL** = Moisture Sensitivity Level: a = 1, b = 2, c = 3, d = 4.

Mechanicals

H1012NL, H1086NL, H1138NL, HX1148NL

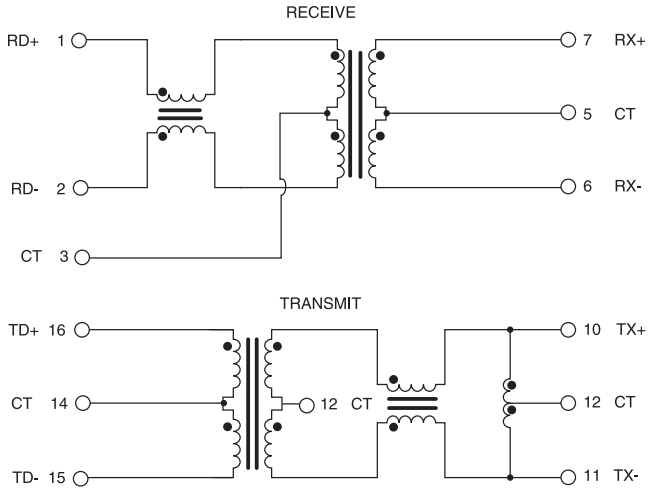


Dimensions: Inches / mm Unless otherwise specified, all tolerances are ± .010 / 0,25

Weight . . . . . 3.0 grams

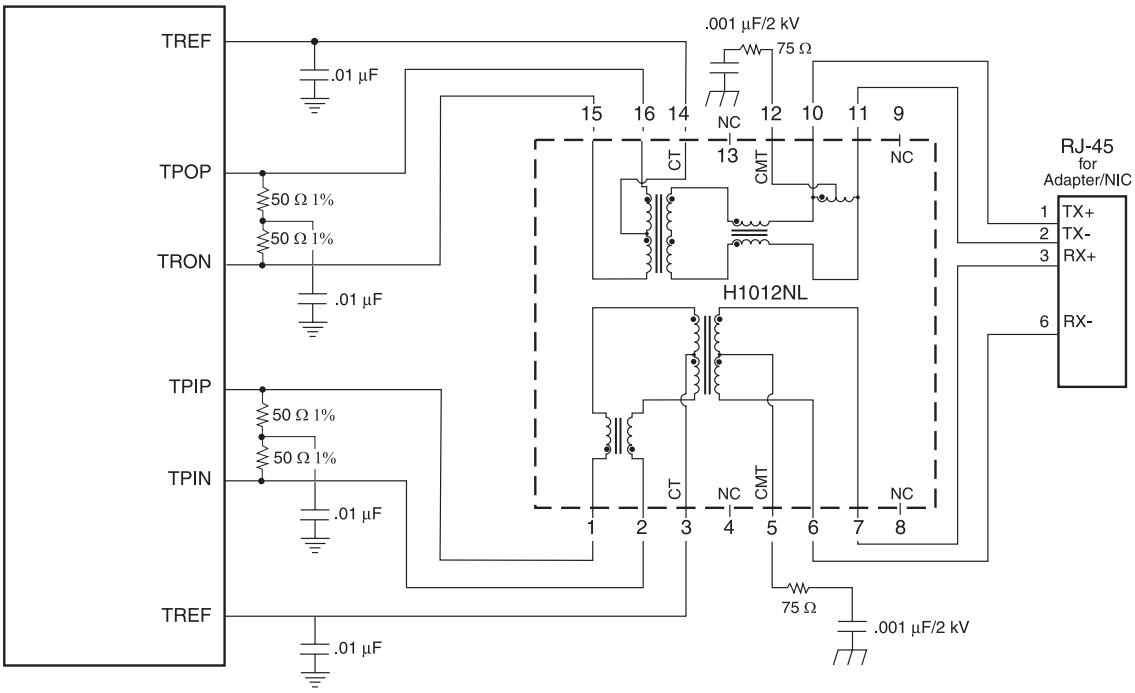
Schematics

H1012NL, H1086NL, HX1148NL, H1138NL



Typical Application Circuits

H1012NL, H1138NL, HX1148NL, H1138NL

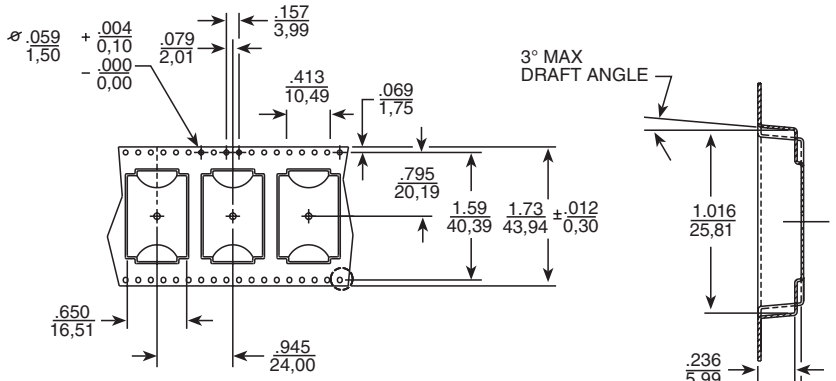


10/100 BASE-T SINGLE PORT TRANSFORMER MODULES

With 1:1 Transmit Turns Ratios

Tape & Reel Specifications

HX1148NL, H1086NL, H1138NL, HX1148NL



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

For More Information

Pulse Worldwide Headquarters
12220 World Trade Drive
San Diego, CA 92128
U.S.A.

Tel: 858 674 8100
Fax: 858 674 8262

Pulse Europe
Einsteinstrasse 1
D-71083 Herrenberg
Germany

Tel: 49 7032 7806 0
Fax: 49 7032 7806 135

Pulse China Headquarters
B402, Shenzhen Academy of Aerospace Technology Bldg.
10th Kejinan Road
High-Tech Zone
Nanshan District
Shenzen, PR China 518057
Tel: 86 755 33966678
Fax: 86 755 33966700

Pulse North China
Room 2704/2705
Super Ocean Finance Ctr.
2067 Yan An Road West
Shanghai 200336
China

Tel: 86 21 62787060
Fax: 86 2162786973

Pulse South Asia
135 Joo Seng Road
#03-02
PM Industrial Bldg.
Singapore 368363

Tel: 65 6287 8998
Fax: 65 6287 8998

Pulse North Asia
3F, No. 198
Zhongyuan Road
Zhongli City
Taoyuan County 320
Taiwan R. O. C.
Tel: 886 3 4356768
Fax: 886 3 4356823 (Pulse)
Fax: 886 3 4356820 (FRE)

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