

# 10/100BASE-T SINGLE PORT SURFACE MOUNT MAGNETICS With Various Turns Ratios



- RoHS peak reflow temperature rating: 245°C
- Meets IEEE 802.3 specification
- Compact footprint for use in the most space-restrictive applications

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

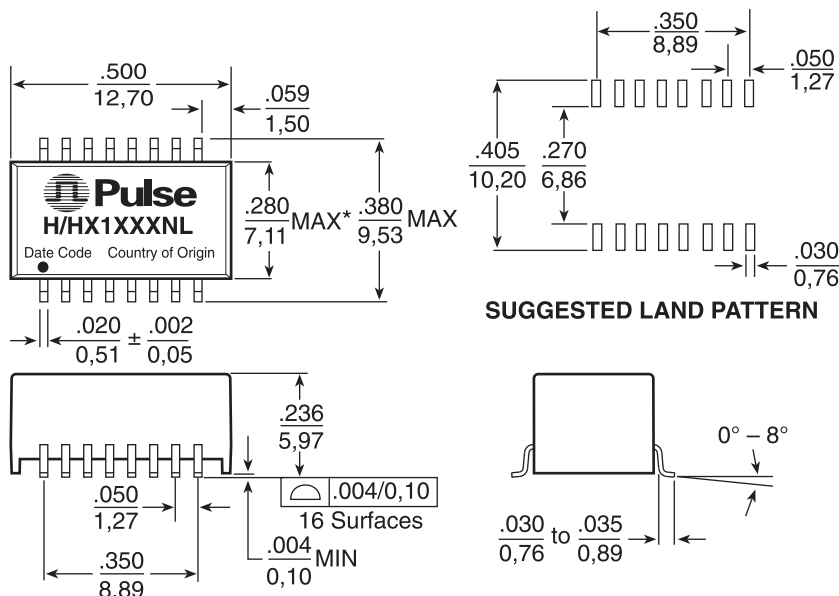
RoHS Compliant Part Number	Turns Ratio		Insertion Loss 100 kHz-100 MHz (dB MAX)	Return Loss (dB TYP)			Differential to Common Mode Rejection (dB TYP)			Crosstalk (dB TYP)			Hipot (Vrms MIN)
	TX	RX		30 MHz	60 MHz	80 MHz	30 MHz	50 MHz	100 MHz	30 MHz	60 MHz	100 MHz	
H1100NL <sup>3a</sup>	2:1	1:1	-1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	1500
H1101NL <sup>3a</sup>	1.25:1	1:1	-1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	1500
H1102NL <sup>3a</sup>	1:1	1:1	-1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	1500
H1121NL <sup>3c</sup>	1:1.414	1:1	-1.1	-18	-12	-11.5	-42	-37	-30	-45	-40	-35	1500
H1183NL <sup>3a</sup>	1:1	1:1	-1.0	-18	-14	-12	-40	-40	-40	-35	-35	-35	1500
H1199NL <sup>3a</sup>	1:1	1:1	-0.9	-18	-12	-11	-40	-35	-30	-45	-45	-37	1500
HX1188NL <sup>1, 3a</sup>	1:1	1:1	-1.0	-20	-14	-12	-42	-37	-32	-45	-40	-35	1500
HX1198 NL <sup>1, 3a</sup>	1:1	1:1	-1.0	-20	-14	-12	-42	-37	-32	-45	-40	-35	1500
H1302NL <sup>3a</sup>	1:1	1:1	-1.1	-16	-10	-10	-42	-37	-32	-35	-30	-30	1500

- Operating temperature -40°C to +85°C
- For Tape & Reel packaging, add a "T" suffix at the end of the part number when ordering, e.g. H1102NLT.
- MSL = Moisture Sensitivity Level a=1 b=2 c=3 d=4

## Mechanical

### H11XXNL, H1121NL, \*H1183NL, H1199NL, HX1188NL, HX1198NL, H1302NL

\* For part number H1183NL, all dimensions are the same, except the height is .220" (5,59 mm).



Dimensions:  $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified,  
all tolerances are  $\pm \frac{.010}{0,25}$

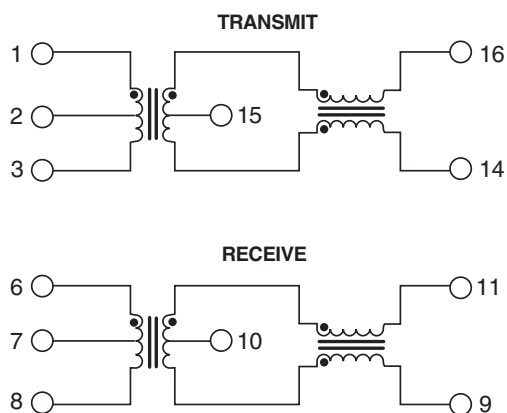
Weight . . . . . 0.9 grams  
 Tube . . . . . 40/tube  
 Tape & Reel . . . . 600/reel

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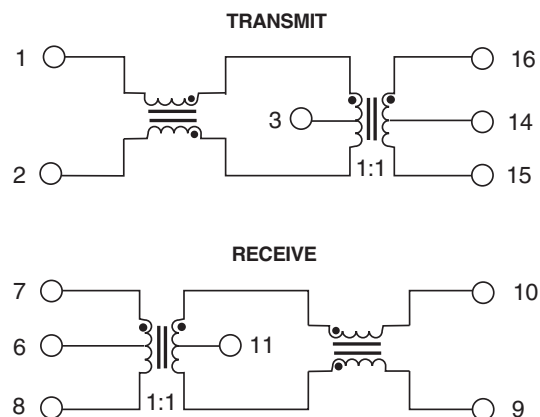


## Schematics

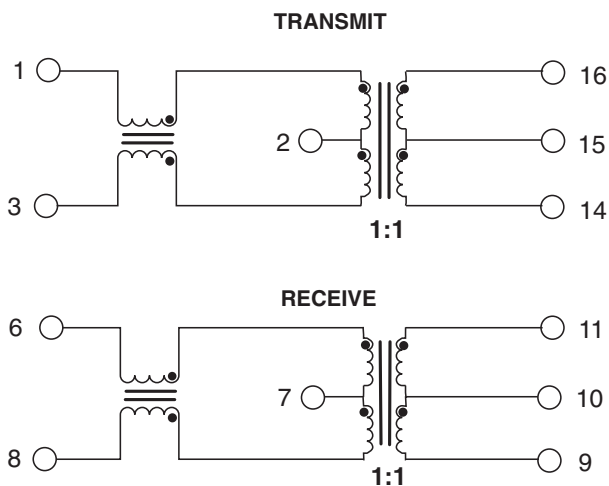
### H110XNL, H1121NL, HX1188NL



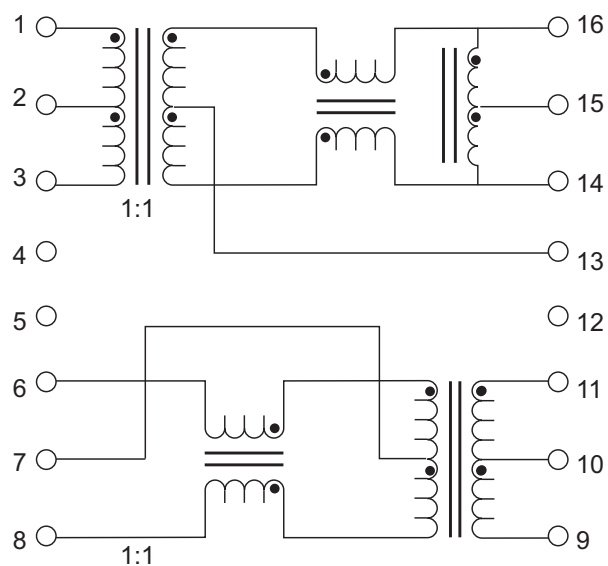
### H1199NL



### HX1198NL, H1183NL



### H1302NL

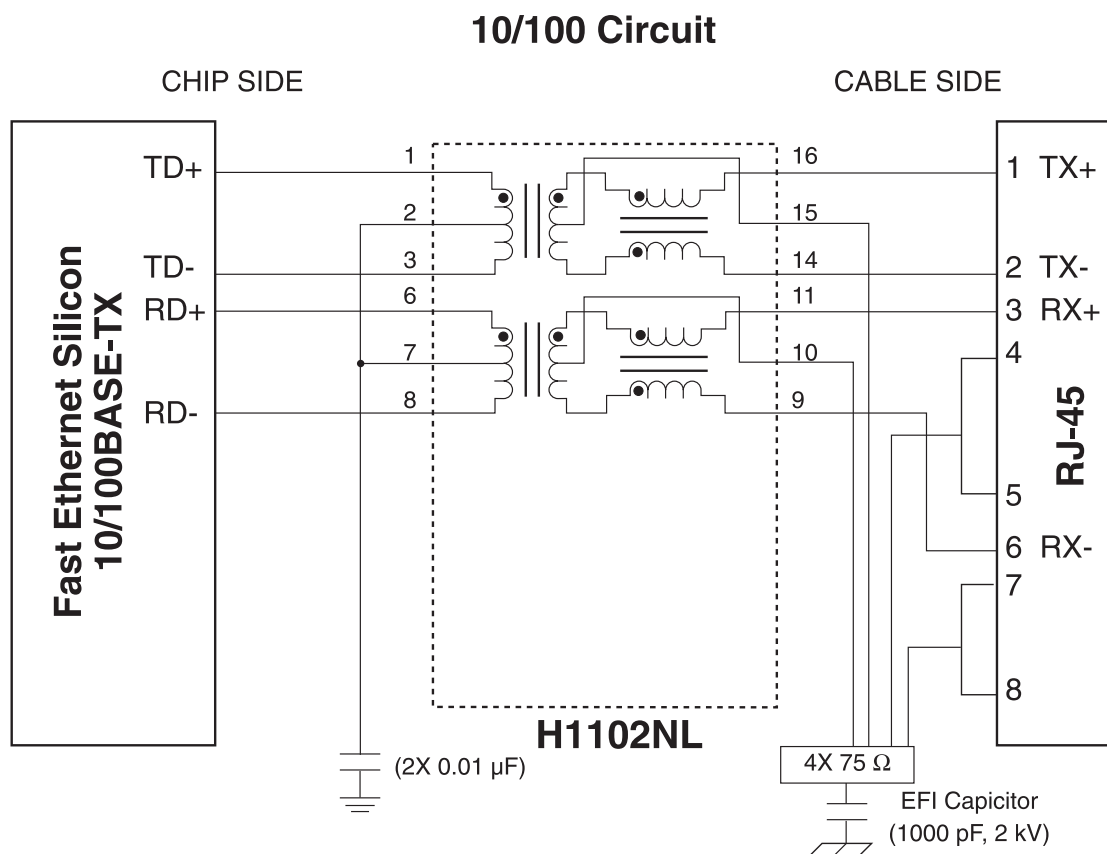


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## Typical Application Circuit

H1102NL



## For More Information:

### Pulse Worldwide Headquarters

12220 World Trade Dr.  
San Diego, CA 92128  
U.S.A.

[www.pulseeng.com](http://www.pulseeng.com)

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 Rd.  
Hwigh-Tech Zone  
Nanshan District  
Shenzhen, PR China 518057

TEL: 86 755 33966678

FAX: 86 755 33966700

### Pulse North China

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

Tel: 86 21 62787060

Fax: 86 2162786973

### Pulse South Asia

135 Joo Seng Rd.  
#03-02  
PM Industrial Bldg.  
Singapore 368363

TEL: 65 6287 8998

FAX: 65 6280 0080

### Pulse North Asia

No. 26, Kao Ching Rd.  
Yang Mei Chen  
Taoyuan Hsien  
Taiwan  
R. O. C.

Tel: 886 3 4643715

Fax: 886 3 4641911

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