

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

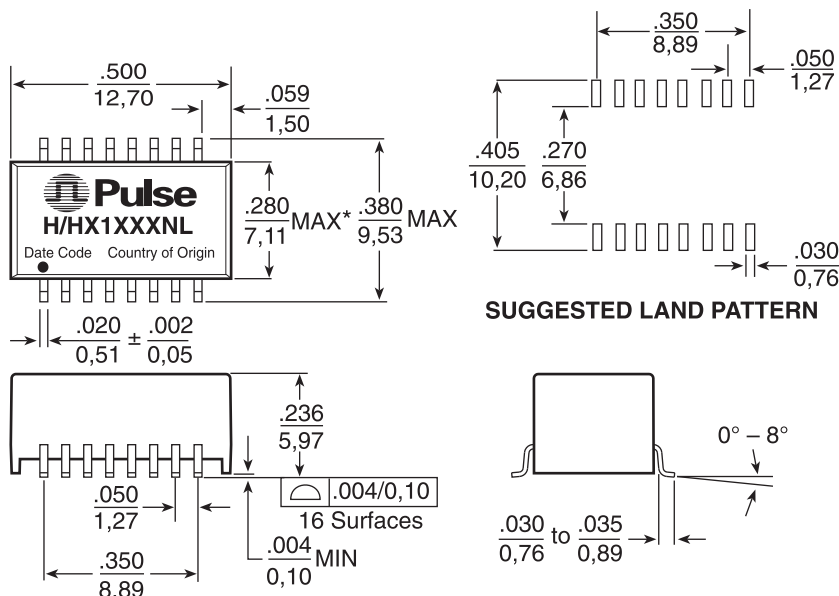
RoHS Compliant Part Number	Turns Ratio		Insertion Loss 100 kHz-100 MHz (dB MAX)	Return Loss (dB TYP)			Differential to Common Mode Rejection (dB TYP)			Crosstalk (dB TYP)			Hipot (Vrms MIN)
	TX	RX		30 MHz	60 MHz	80 MHz	30 MHz	50 MHz	100 MHz	30 MHz	60 MHz	100 MHz	
H1100NL ^{3a}	2:1	1:1	-1.1	-20	-14	-11.5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

1. **Operating** temperature -40°C to +85°C
2. **For Tape & Reel** packaging, add a "T" suffix at the end of the part number when ordering, e.g. H1102NLT.
3. **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 $\pm \frac{.010}{0,25}$

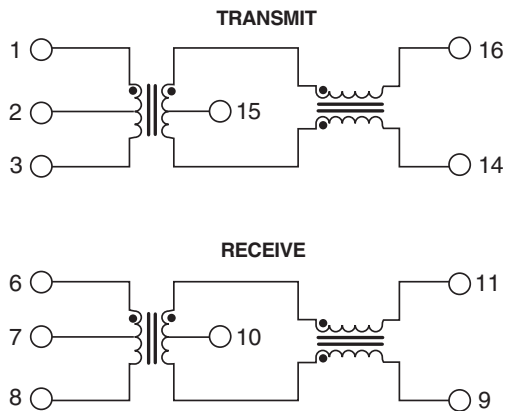
Weight 0.9 grams
 Tube 40/tube
 Tape & Reel 600/reel

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

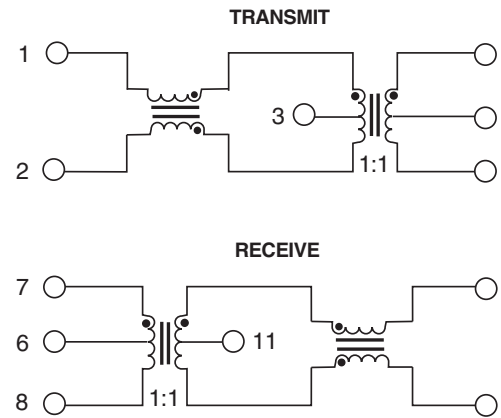


Schematics

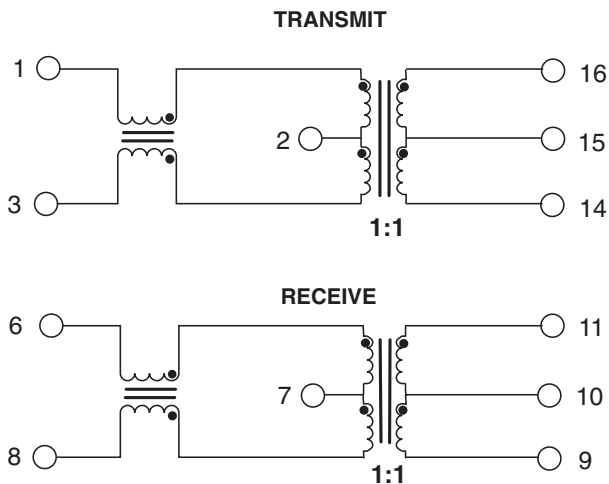
H110XNL, H1121NL, HX1188NL



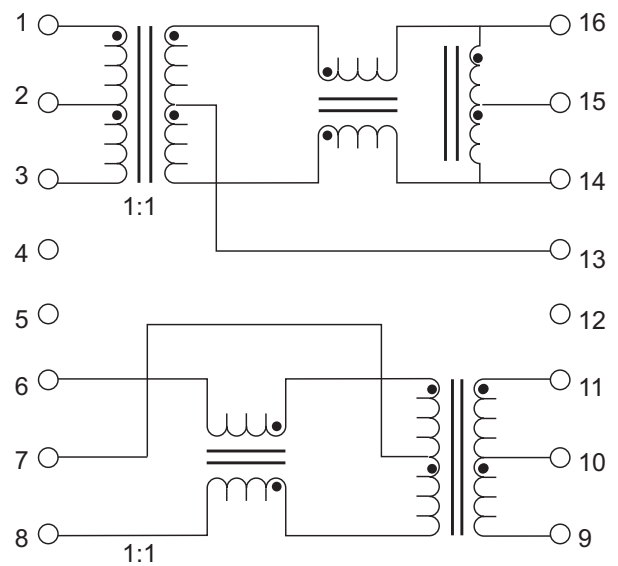
H1199NL



HX1198NL, H1183NL



H1302NL

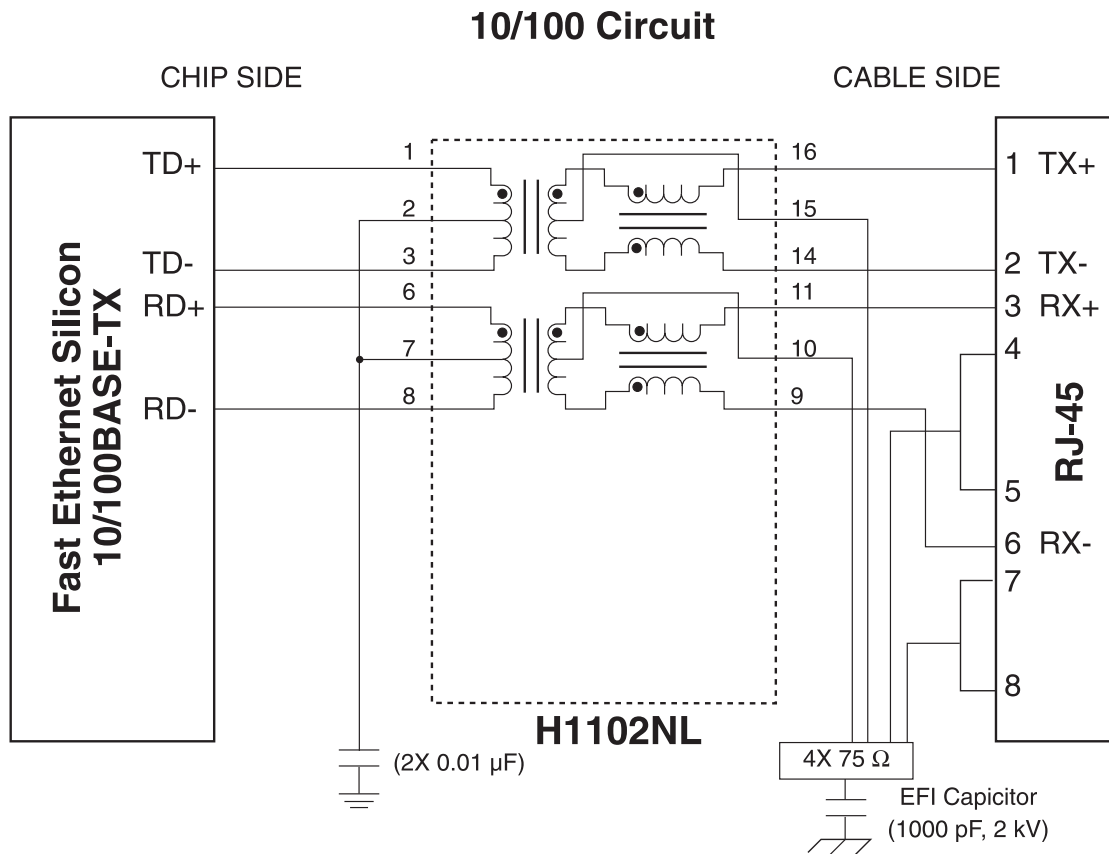


10/100BASE-T SINGLE PORT SURFACE MOUNT MAGNETICS With Various Turns Ratios



Typical Application Circuit

H1102NL



For More Information:

Pulse Worldwide Headquarters

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

Pulse Europe

Einsteinstrasse 1
D-71083 Herrenberg
Germany

Pulse China Headquarters

B402, Shenzhen Academy of
Aerospace Technology Bldg.
10th Kejinan Rd.
High-Tech Zone
Nanshan District
Shenzhen, PR China 518057

Pulse North China

Room 1503
XinYin Building
No. 888 YiShan Rd.
Shanghai 200233
China

Pulse South Asia

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

Pulse North Asia

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

www.pulseeng.com

Tel: 858 674 8100
Fax: 858 674 8262

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

TEL: 86 755 33966678
FAX: 86 755 33966700

Tel: 86 21 54643211/2
Fax: 86 21 54643210

TEL: 65 6287 8998
FAX: 65 6280 0080

Tel: 886 3 4643715
Fax: 886 3 4641911

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners.

© Copyright, 2009. Pulse Engineering, Inc. All rights reserved.

www.pulseeng.com