

10/100BASE-T SINGLE PORT SURFACE MOUNT MAGNETICS

With Various Turns Ratios



-  For RoHS part add suffix **NL**⁴
-  Peak solder temperature rating per Table 5-2 in IPC/JEDEC J-STD-020C
-  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

Part ¹ Number	RoHS ⁴	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		30MHz	60MHz	80MHz	30MHz	50MHz	100MHz	30MHz	60MHz	100MHz	
H1100	2, 3c	2:1	1:1	-1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	1500
H1101	NL ^{3a}	1.25:1	1:1	-1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	1500
H1102	NL ^{3a}	1:1	1:1	-1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	1500
H1121	NL ^{3c}	1:1.414	1:1	-1.1	-18	-12	-11.5	-42	-37	-30	-45	-40	-35	1500
H1183NL	NL ^{3a}	1:1	1:1	-1.0	-18	-14	-12	-40	-40	-40	-35	-35	-35	1500
H1199	2, 3a	1:1	1:1	-0.9	-18	-12	-11	-40	-35	-30	-45	-45	-37	1500
HX1188*	NL ^{3c}	1:1	1:1	-1.0	-20	-14	-12	-42	-37	-32	-45	-40	-35	1500
HX1198*	NL ^{3c}	1:1	1:1	-1.0	-20	-14	-12	-42	-37	-32	-45	-40	-35	1500
H1302	NL ^{3a}	1:1	1:1	-1.1	-16	-10	-10	-42	-37	-32	-35	-30	-30	1500

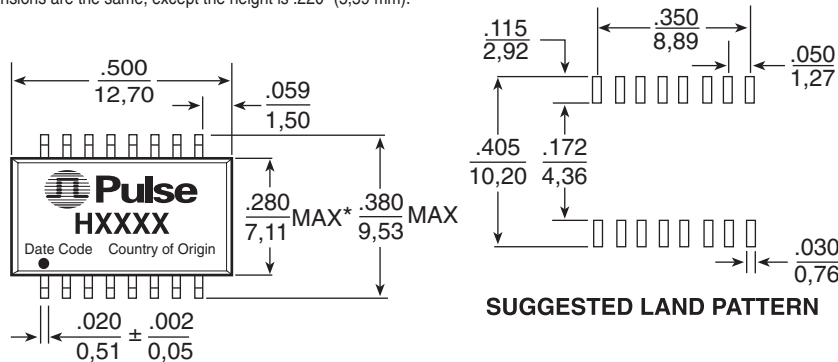
*Operating temperature -40°C to +85°C

- For Tape & Reel packaging, add a "T" suffix at the end of the part number when ordering, e.g. H1102T
- Contact Pulse for RoHS compliant part availability
- MSL=Moisture Sensitivity Level a=1 b=2 c=3 d=4
- Add suffix **NL** for RoHS compliant parts, e.g. H1102 changes to H1102NL or H1102NLT (for Tape & Reel)

Mechanical

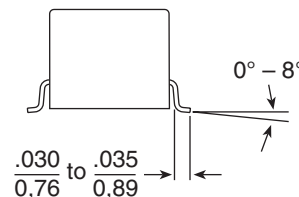
H110X, H1121, H1183,* H1199, HX1188, HX1198, H1302

* For part number H1183, all dimensions are the same, except the height is .220" (5.59 mm).



Dimensions: Inches
mm
Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0.25}$

SUGGESTED LAND PATTERN



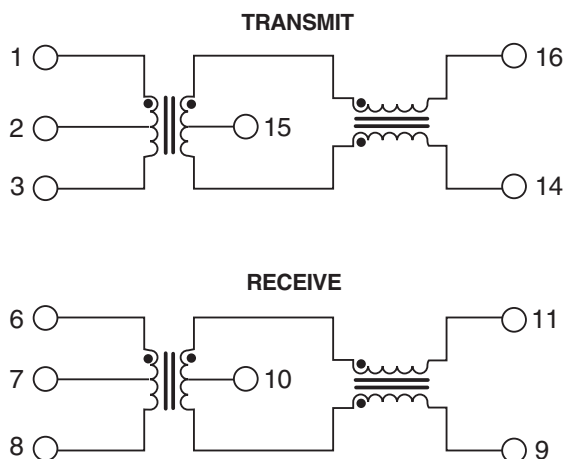
Weight 2.8 grams
Tube 45/tube
Tape & Reel 600/reel

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

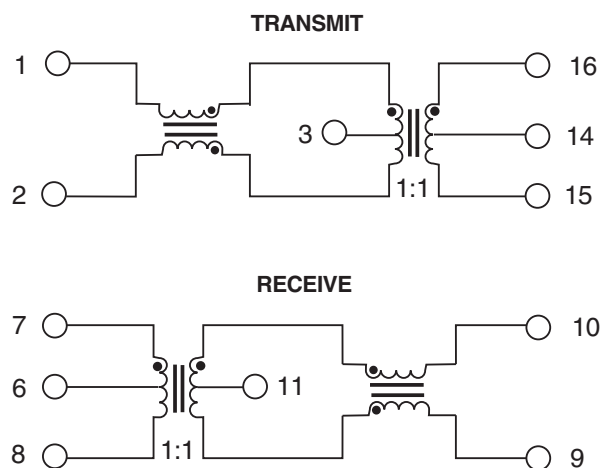


Schematics

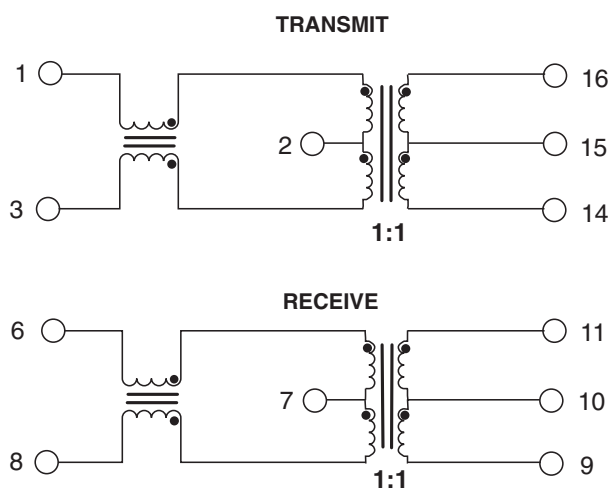
H110X, H1121, HX1188



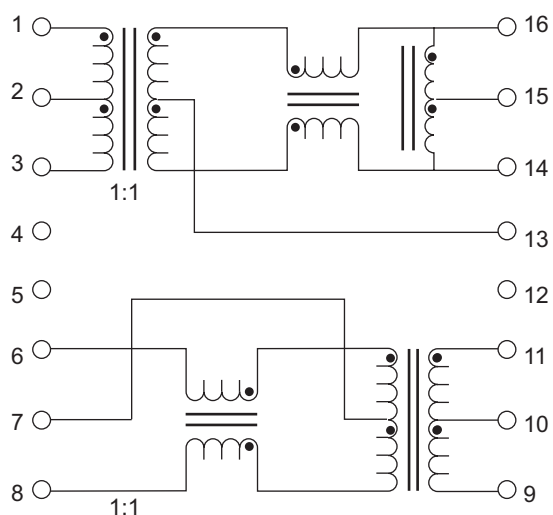
H1199



HX1198, H1183



H1302



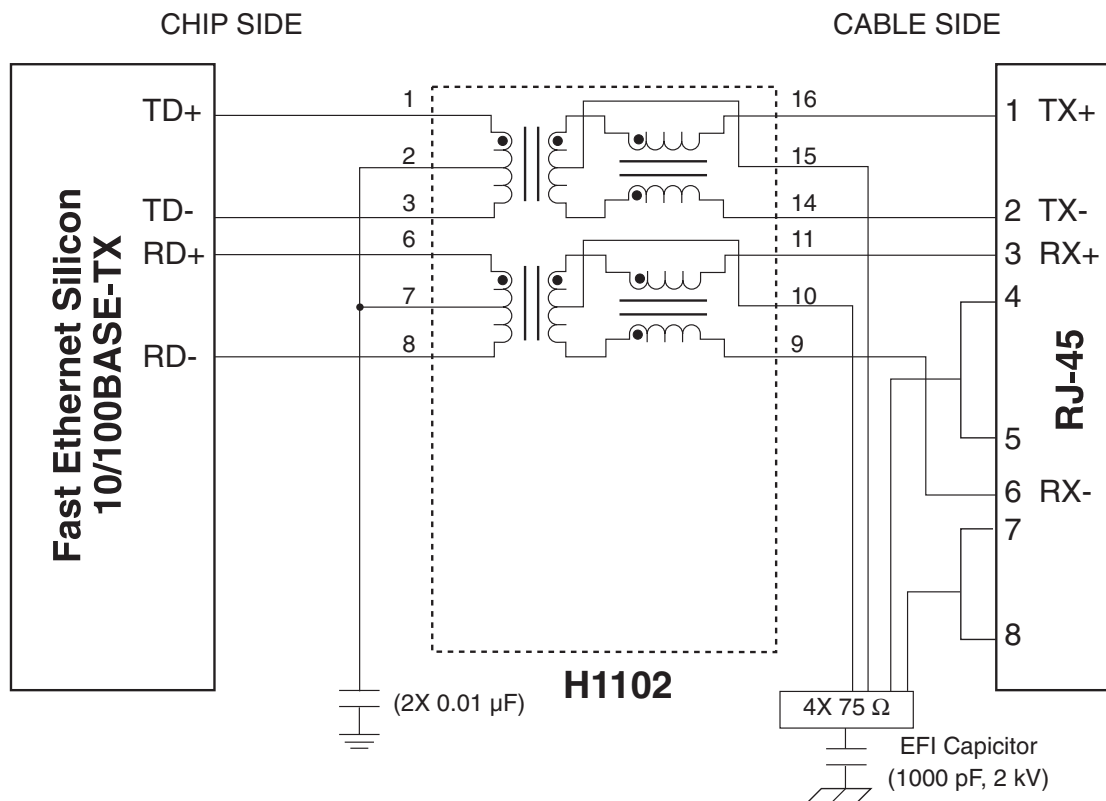
10/100BASE-T SINGLE PORT SURFACE MOUNT MAGNETICS With Various Turns Ratios



Typical Application Circuit

H1102

10/100 Circuit



For More Information:

Pulse Worldwide Headquarters

12220 World Trade Drive
San Diego, CA 92128
U.S.A.
www.pulseeng.com
TEL: 858 674 8100
FAX: 858 674 8262

Pulse Northern Europe

3 Huxley Road
Surrey Research Park
Guildford, Surrey GU2 5RE
United Kingdom
TEL: 44 1483 401700
FAX: 44 1483 401701

Pulse Southern Europe

Zone Industrielle
F-39270
Orgelet
France
TEL: 33 3 84 35 04 04
FAX: 33 3 84 25 46 41

Pulse China Headquarters

No. 1
Industrial District
Changan, Dongguan
China
TEL: 86 769 5538070
FAX: 86 769 5538870

Pulse North China

Room 1002
No. 819
Nanjing West Rd
Shanghai
China
TEL: 86 21 32181071
FAX: 86 21 32181396

Pulse South Asia

150 Kampong Ampat
#07-01/02
KA Centre
Singapore 368324
TEL: 65 6287 8998
FAX: 65 6280 0080

Pulse North Asia

3F-4, No. 81, Sec. 1
Hsin Tai Wu Road
Hsi-Chih
Taipei Hsien
Taiwan
TEL: 886 2 26980228
FAX: 886 2 26980948

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, 2006. Pulse Engineering, Inc. All rights reserved.