10/100BASE-T SINGLE PORT SURFACE MOUNT MAGNETICS



With Various Turns Ratios





- For RoHS part add suffix NL⁴
- 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

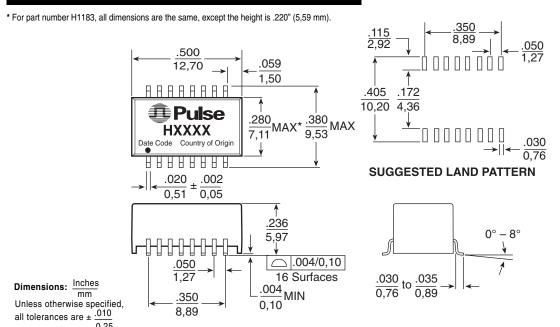
Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C														
Part ¹ Number	RoHS ⁴	Turns Ratio		Insertion Loss 100 kHz–100 MHz (db MAX)	Return Loss (dB TYP)			Differential to Common Mode Rejection (dB TYP)			Crosstalk (dB TYP)			Hipot (Vrms MIN)
		TX	RX	(UD WAX)	30MHz	60MHz	80MHz	30MHz	50MHz	100MHz	30MHz	60MHz	100MHz	IVIII V)
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 ^{3c}	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

- 1. For Tape & Reel packaging, add a "T" suffix at the end of the part number when ordering, e.g. H1102T
- 2. Contact Pulse for RoHS compliant part availability
- 3. MSL=Moisture Sensitivity Level a=1 b=2 c=3 d=4
- 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



 Weight
 ...
 2.8 grams

 Tube
 ...
 .45/tube

 Tape & Reel
 ...
 .600/reel

10/100BASE-T SINGLE PORT SURFACE MOUNT MAGNETICS

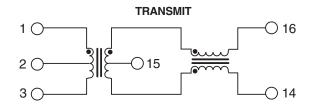


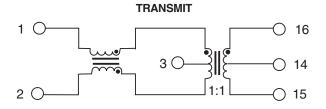
With Various Turns Ratios

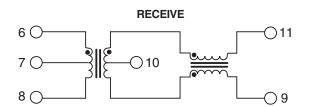
Schematics

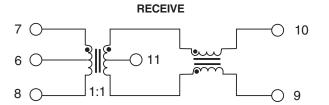
H110X, H1121, HX1188

H1199



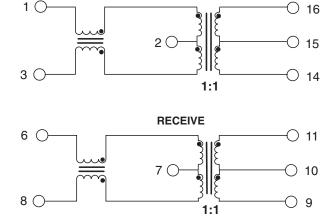




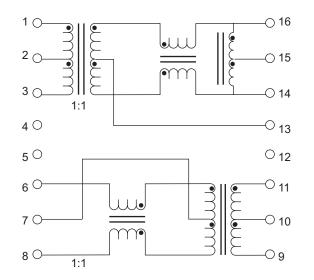


HX1198, H1183

H1302



TRANSMIT



10/100BASE-T SINGLE PORT SURFACE MOUNT MAGNETICS

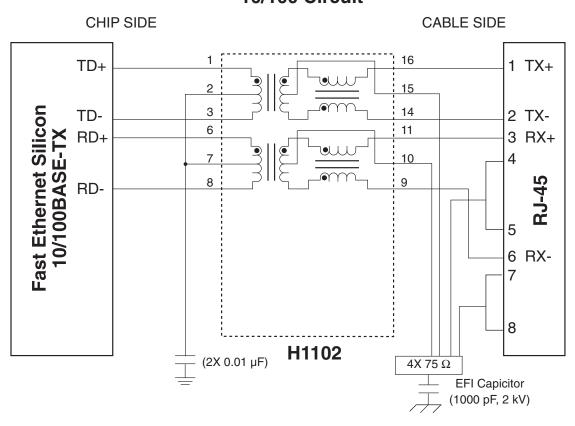


With Various Turns Ratios

Typical Application Circuit

H1102

10/100 Circuit



For More Information:

Pulse Worldwide Pulse Pulse Pulse North China Pulse South Asia Pulse North Asia Pulse Northern Europe Room 1002 3F-4, No. 81, Sec. 1 Headquarters **Southern Europe China Headquarters** 150 Kampong Ampat #07-01/02 Hsin Tai Wu Road 12220 World Trade Drive 3 Huxley Road Zone Industrielle No. 1 No. 819 Nanjing West Rd KA Centre Hsi-Chih Surrey Research Park San Diego, CA 92128 F-39270 Industrial District Guildford, Surrey GU2 5RE Shanghai Singapore 368324 Taipei Hsien Changan, Dongguan U.S.A. Orgelet United Kingdom China Taiwan www.pulseeng.com France China TEL: 886 2 26980228 TEL: 86 21 32181071 TEL: 65 6287 8998 TEL: 44 1483 401700 TEL: 33 3 84 35 04 04 TEL: 86 769 5538070 TEL: 858 674 8100 FAX: 86 21 32181396 FAX: 65 6280 0080 FAX: 886 2 26980948 FAX: 858 674 8262 FAX: 44 1483 401701 FAX: 33 3 84 25 46 41 FAX: 86 769 5538870

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, 2005. Pulse Engineering, Inc. All rights reserved.