

10/100BASE-T SINGLE PORT TRANSFORMER MODULES

With Various Transmit Turns Ratios



- Meets all IEEE 802.3 and ANSI X3.263 standards including 350 μ H OCL with 8 mA bias
- Designed for use with transceivers from AMD, Kendin Semiconductor, and Quality Semiconductor
- IC grade transfer-molded package suitable for reflow soldering temperatures up to 235°C
- Patented Interlock base construction for high reliability

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

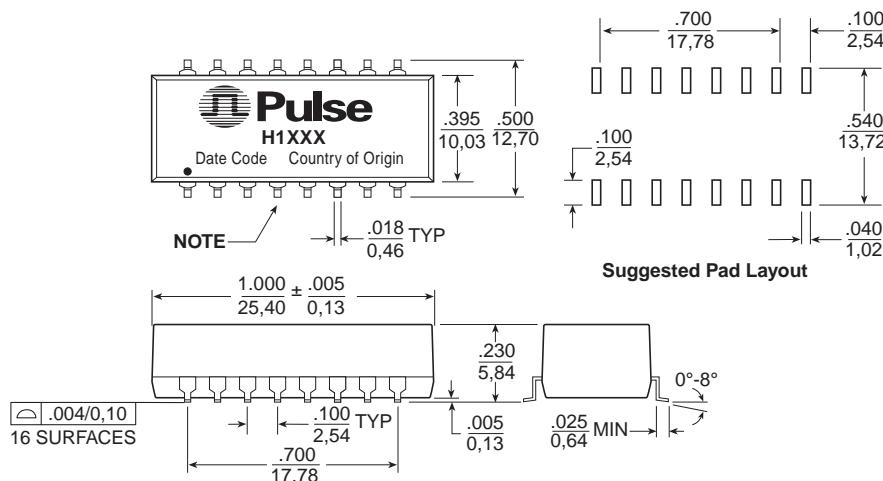
Part Number	Turns Ratio ($\pm 5\%$)		Insertion Loss 100 KHz-100 MHz (dB MAX)	Return Loss (db MIN)			Crosstalk (dB MIN)			Hipot (Vrms MIN)
	Receive	Transmit		30 MHz	60 MHz	80 MHz	30 MHz	60 MHz	100 MHz	
H1013	1:1	$\sqrt{2}:1$	-1.0	-16	-12	-10	-45	-38	-34	1500
H1015	1:1	$\sqrt{2}:1$	-1.0	-16	-12	-10	-45	-38	-34	1500
H1033	1:1	$\sqrt{2}:1$	-1.0	-16	-12	-10	-45	-38	-34	1500
H1035	1:1	$\sqrt{2}:1$	-1.0	-16	-12	-10	-45	-38	-34	1500
H1043	1:1	1.25:1	-1.0	-16	-12	-10	-45	-38	-34	1500
H1081	1:1	1: $\sqrt{2}$	-2.0	-18	-12	-11	-45	-38	-34	1500
H1093	1:1	$\sqrt{2}:1$	-1.0	-16	-12	-10	-45	-38	-34	1500
H1119	1:1	1: $\sqrt{2}$	-2.0	-16	-11	-10	-45	-38	-34	1500

NOTE: The H1093 has been optimized for use with the Kendin KS8761.

U.S. Patent No. 5,015,981

Mechanical

H1013, H1015, H1033, H1035, H1043, H1081, H1093, H1119



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

Unless otherwise specified, all tolerances are $\pm .010$
 $\pm .025$

NOTE: Pin 4 is omitted on the H1015.

U.S: 619 674 8100 • U.K: 44 1483 401700 • France: 33 3 84 35 04 04 • Taiwan: 886 2 2698 0228 • Singapore: 65 287 8998 • <http://www.pulseeng.com>

PRELIMINARY H314.P (4/99)

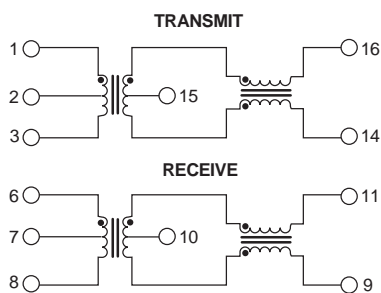
10/100BASE-T SINGLE PORT TRANSFORMER MODULES

With Various Transmit Turns Ratios

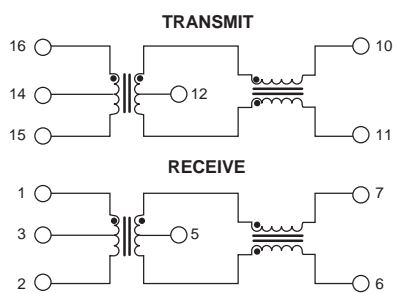


Schematics

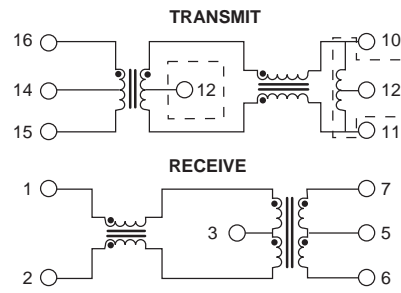
H1013, H1033, H1043, H1093



H1015

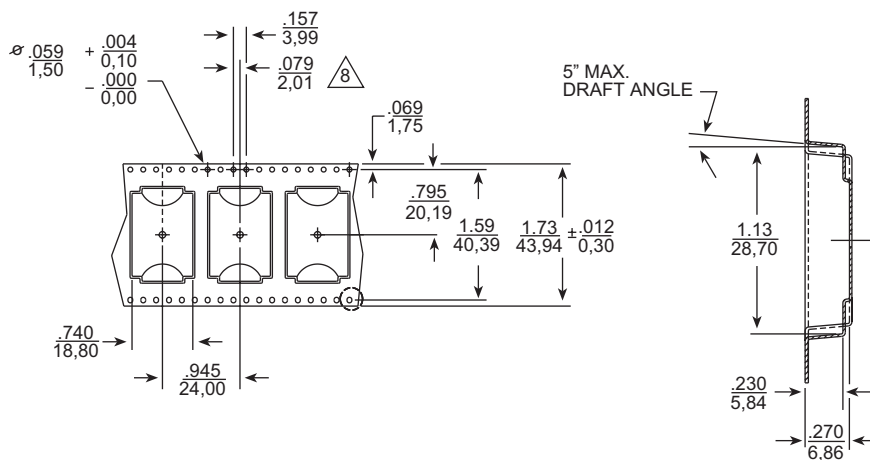


H1035, H1081, H1119



NOTE: The H1081 incorporates an autotransformer, so there is no connection to the TX transformer center tap.

Tape and Reel Specifications



Weight 3.00 grams
Tape & Reel350/reel
Tube20/tube

NOTE: Modules are packaged in tubes, unless Tape & Reel is specified.
Please add the suffix "T" such as H1013T for Tape & Reel orders.

For More Information :

Corporate (U.S.A.)

12220 World Trade Drive
San Diego, CA 92128
Tel: 619 674 8100
FAX: 619 674 8262
Quick-Facts: 619 674 9672
<http://www.pulseeng.com>

U.K. (Northern Europe)

1 & 2 Huxley Road
The Surrey Research Park
Guildford, Surrey GU2 5RE
United Kingdom
Tel: 44 1483 401700
FAX: 44 1483 401701

France (Southern Europe)

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

Taiwan (Northern Asia)

3F-4, No. 81, Sec. 1
HsinTai Wu Road
Hsi-Chih, Taipei Hsien
Taiwan
Tel: 886 2 2698 0228
FAX: 886 2 2698 0948

Singapore (Southern Asia)

150 Kampong Ampat
#07-01/02
KA Centre
Singapore 368324
Tel: 65 287 8998
FAX: 65 280 0080

Distributor

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.

Printed on recycled paper. ©1999, Pulse Engineering, Inc.

PRELIMINARY H314.P (4/99)