

# 10/100BASE-T SINGLE PORT TRANSFORMER MODULES

With Various Transmit Turns Ratios



- Meets all IEEE 802.3 and ANSI X3.263 standards including 350  $\mu$ 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

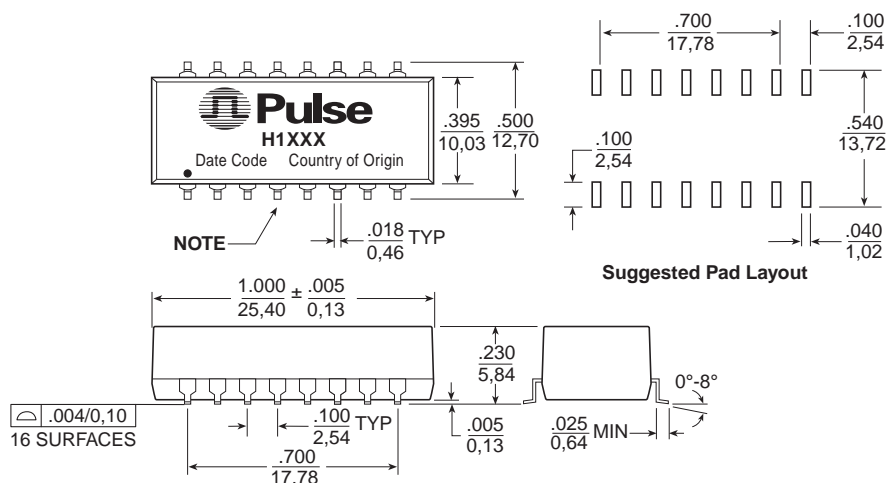
Part Number	Turns Ratio ( $\pm 5\%$ )		Insertion Loss 100 KHz-100 MHz (dB MAX)	Return Loss (dB MIN)			Crosstalk (dB MIN)			Hipot (Vrms MIN)
	Receive	Transmit		30 MHz	60 MHz	80 MHz	30 MHz	60 MHz	100 MHz	
H1013	1:1	$\sqrt{2}:1$	-1.0	-16	-12	-10	-45	-38	-34	1500
H1015	1:1	$\sqrt{2}:1$	-1.0	-16	-12	-10	-45	-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  $\pm \frac{.010}{0,25}$

NOTE: Pin 4 is omitted on the H1015.

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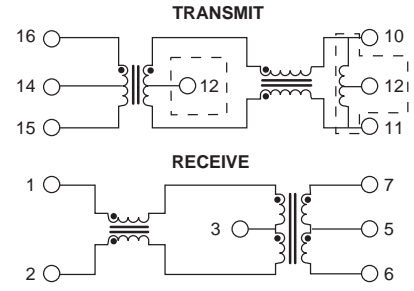
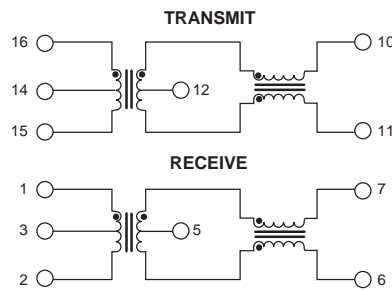
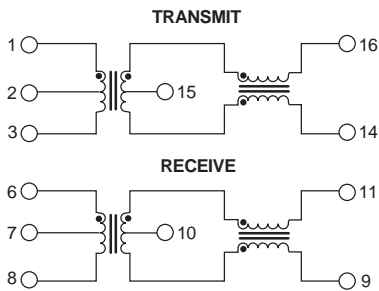


### Schematics

**H1013, H1033, H1043, H1093**

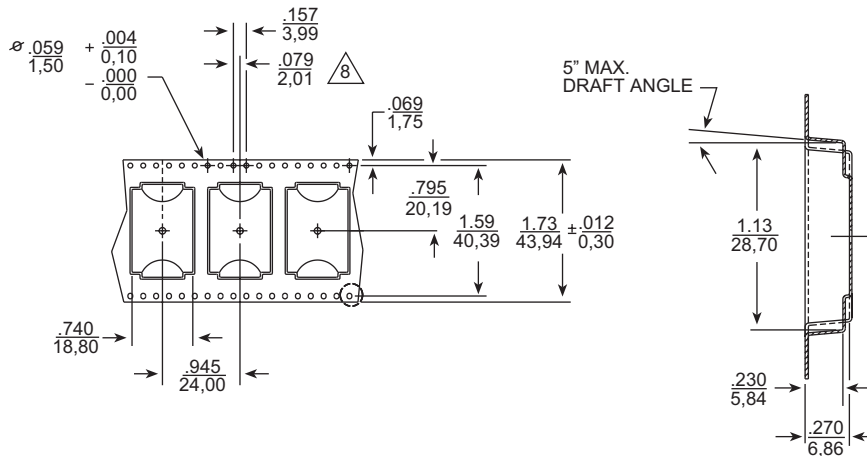
**H1015**

**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 & Reel ..... .350/reel  
 Tube ..... .20/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.)	U.K. (Northern Europe)	France (Southern Europe)	Taiwan (Northern Asia)	Singapore (Southern Asia)	Distributor
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	1 & 2 Huxley Road The Surrey Research Park Guildford, Surrey GU2 5RE United Kingdom Tel: 44 1483 401700 FAX: 44 1483 401701	Zone Industrielle F-39270 Orgelet France Tel: 33 3 84 35 04 04 FAX: 33 3 84 25 46 41	3F-4, No. 81, Sec. 1 HsinTai Wu Road Hsi-Chih, Taipei Hsien Taiwan Tel: 886 2 2698 0228 FAX: 886 2 2698 0948	150 Kampong Ampat #07-01/02 KA Centre Singapore 368324 Tel: 65 287 8998 FAX: 65 280 0080	

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**PRELIMINARY H314.P (4/99)**