

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

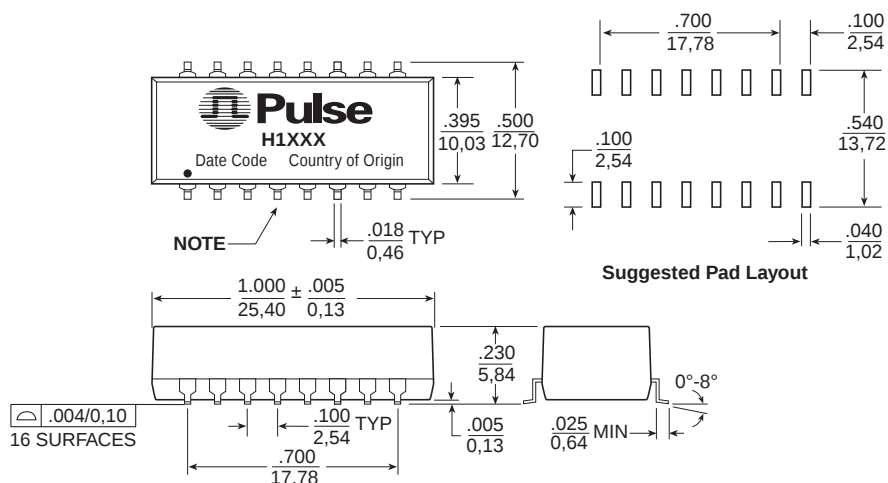
Part Number	Turns Ratio ($\pm 5\%$)		Insertion Loss 100 KHz-100 MHz (dB MAX)	Return Loss (dB MIN)			Crosstalk (dB MIN)			Hipot (Vrms MIN)
	Receive	Transmit		30 MHz	60 MHz	80 MHz	30 MHz	60 MHz	100 MHz	
H1013	1:1	$\sqrt{2}:1$	-1.0	-16	-12	-10	-45	-38	-34	1500
H1015	1:1	$\sqrt{2}:1$	-1.0	-16	-12	-10	-45	-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 $\pm \frac{.010}{.025}$

NOTE: Pin 4 is omitted on the H1015.

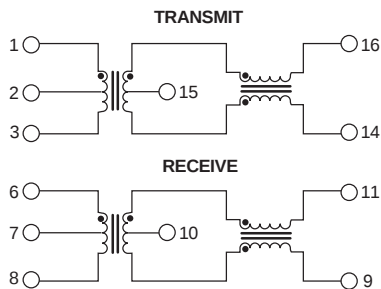
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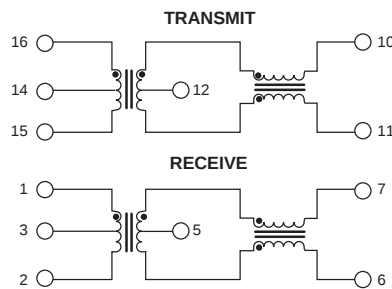


Schematics

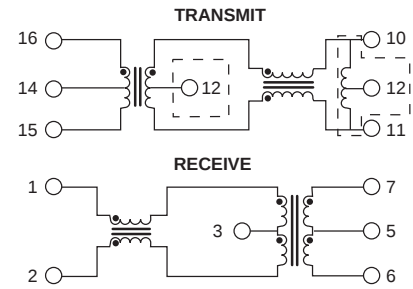
H1013, H1033, H1043, H1093



H1015

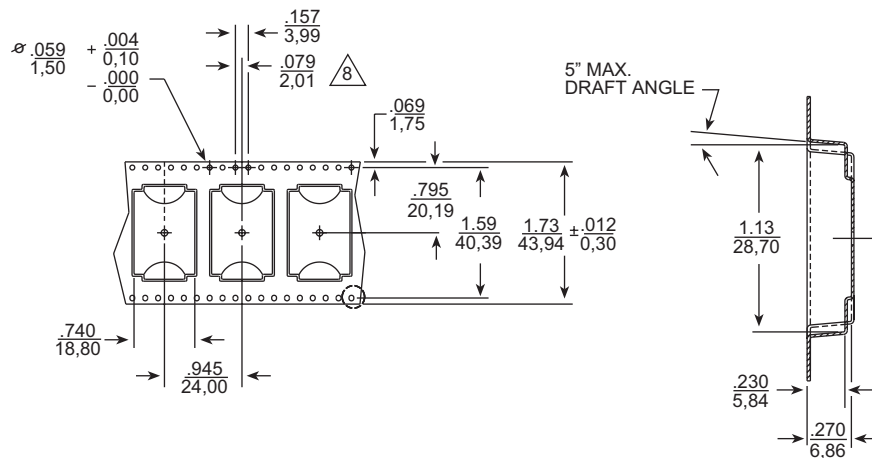


H1035, H1081, H1119



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 & 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.

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PRELIMINARY H314.P (4/99)