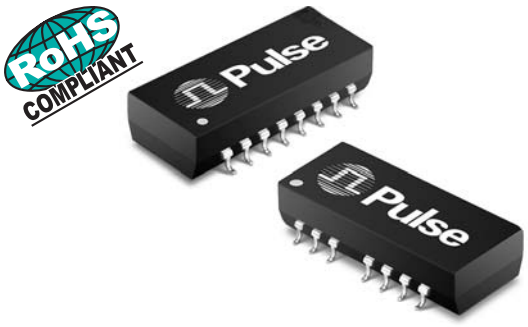
10/100BASE-TX SINGLE PORT TRANSFORMER MODULES

With Various Transmit Turns Ratios



- RoHS-5 peak reflow temperature rating 235°C
- RoHS-6 peak reflow temperature rating 245°C
- Meets IEEE 802.3 specification
- Designed for use with transceivers for AMD & Micrel

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

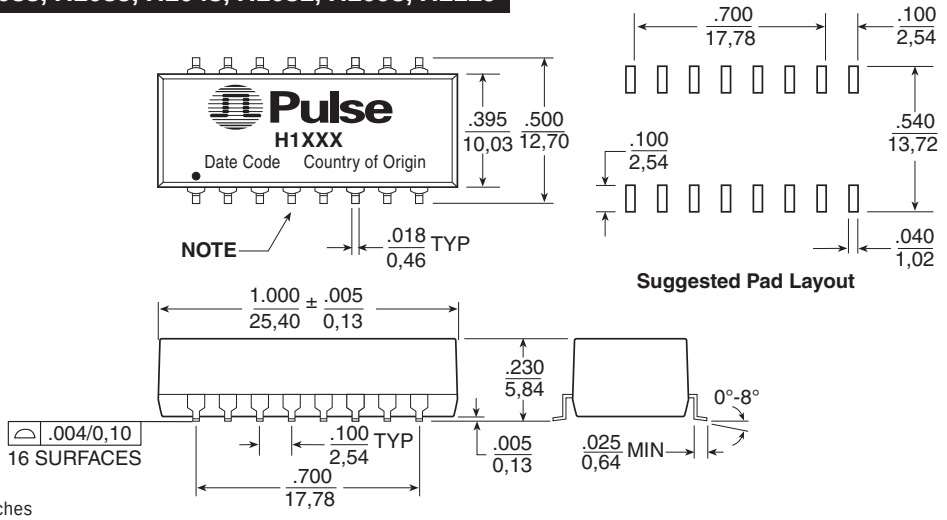
RoHS-5 [3] Compliant Part Number	RoHS-6 [4] Compliant Part Number	Turns Ratio (±5%)		Insertion Loss (db MAX)	Return Loss (db MIN)			Crosstalk (dB MIN)			Hipot (Vrms MIN)
		TX	RX	100 KHz-100 MHz	30 MHz	60 MHz	80 MHz	30 MHz	60 MHz	100 MHz	
H1013	—	1:√2	1:1	-1.0	-16	-12	-10	-45	-38	-34	1500
H1015	H1015NL[2c]	1:√2	1:1	-1.0	-16	-12	-10	-45	-38	-34	1500
H1033	H1033 [2d]	1:√2	1:1	-1.0	-16	-12	-10	-45	-38	-34	1500
H1035	—	1:√2	1:1	-1.0	-16	-12	-10	-45	-38	-34	1500
H1043	H1043 [2c]	1:√2	1:1	-1.0	-16	-12	-10	-45	-38	-34	1500
H1081	H1081NL[2d]	1:√2	1:1	-2.0	-18	-12	-11	-45	-38	-34	1500
H1093	H1093 [2c]	1:√2	1:1	-1.0	-16	-12	-10	-45	-38	-34	1500
H1119	H1119 [2c]	1:√2	1:1	-2.0	-16	-11	-10	-45	-38	-34	1500

1. **For Tape & Reel** packaging, add suffix "**T**" to the end of the part number when ordering e.g. H1081**T**.
2. **MSL=** Moisture Sensitivity Level a=1 b=2 c=3 d=4 e=5.
3. **RoHS-5:** Product does not contain 5 out of the 6 banned substances specified in the RoHS directive (product contains lead in applications considered solder).
4. **RoHS-6:** Product does not contain 5 out of the 6 banned substances specified in the RoHS directive. Some internal connections may contain lead in high-temperature solder (solder alloys containing more than 85% lead).

NOTE: The H1093 has been optimized for use with the Kendin KS8761 (now Micrel).

Mechanical

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



Dimensions: Inches / mm

Unless otherwise specified, all tolerances are ± .010 / 0,25

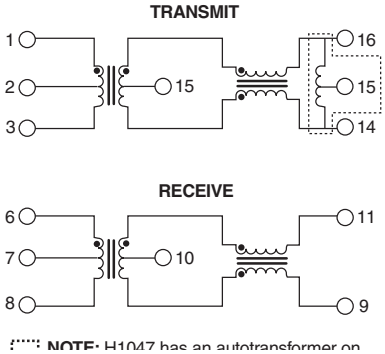
NOTE: Pin 4 is omitted on the H1015.

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With Various Transmit Turns Ratios

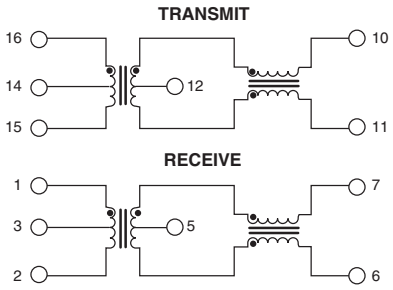
Schematics

H1013, H1033, H1043, H1093

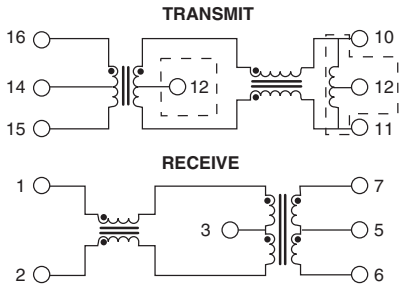


NOTE: H1047 has an autotransformer on

H1015

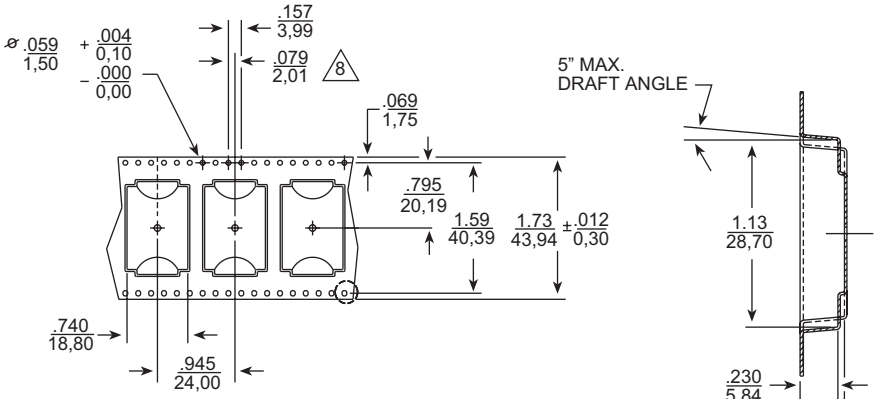


H1035, H1081, H1119



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. Add the suffix **"T"** such as H1013**T** for Tape & Reel orders.

For More Information:

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

Pulse European Headquarters
Einsteinstrasse 1
71083 Herrenberg
Germany

TEL: 49 7032 7806 0
FAX: 49 7032 7806 12

Pulse China Headquarters
No. 1
Industrial District
Changan, Dongguan
China
TEL: 86 769 85538070
FAX: 86 769 85538870

Pulse North China
Room 1503
XinYin Building
No. 888 YiShan Rd.
Shanghai 200233
China
TEL: 86 21 54643211/2
FAX: 86 21 54643210

Pulse South Asia
150 Kampong Ampat
#07-01/02
KA Centre
Singapore 368324

TEL: 65 6287 8998
FAX: 65 6280 0080

Pulse North Asia
No. 26
Kao Ching Rd.
Yang Mei Chen
Taoyuan Hsien
Taiwan, R. O. C.
TEL: 886 3 4641811
FAX: 886 3 4641911

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