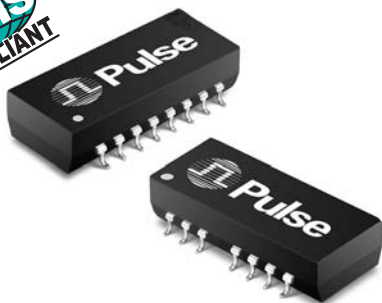


With Various Transmit Turns Ratios



- 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

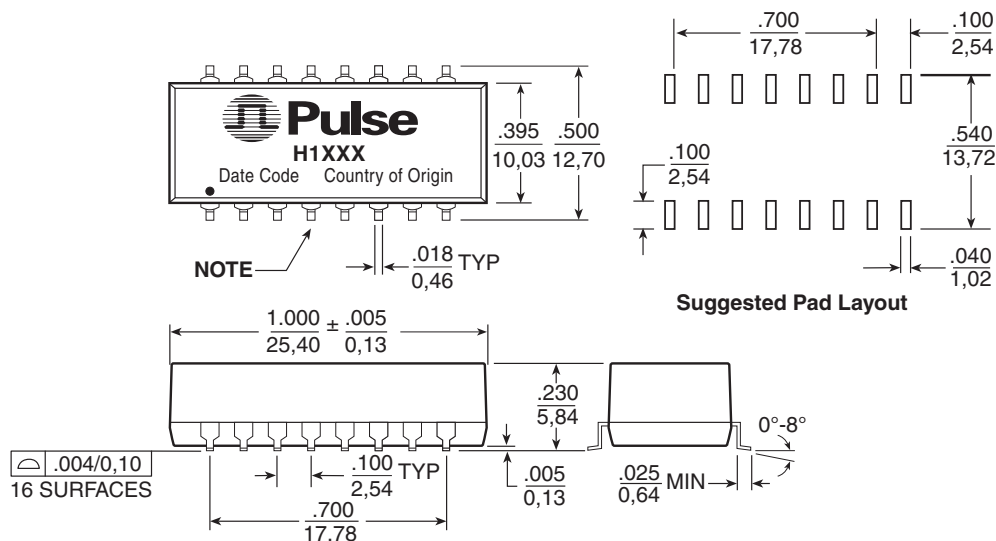
Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

RoHS-6 ⁴ Compliant Part Number	RoHS-5 ³ 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
H1015NL ^{2c}	—	1:√2	1:1	-1.0	-16	-12	-10	-45	-38	-34	1500
H1033NL ^{2c}	H1033	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
H1043NL ^{2c}	H1043	1:√2	1:1	-1.0	-16	-12	-10	-45	-38	-34	1500
H1081NL ^{2d}	H1081	1:√2	1:1	-2.0	-18	-12	-11	-45	-38	-34	1500
H1093NL ^{2c}	—	1:√2	1:1	-1.0	-16	-12	-10	-45	-38	-34	1500
H1119NL ^{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 H1093NL has been optimized for use with the Kendin KS8761 (now Micrel).

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 H1015NL.

10/100BASE-TX SINGLE PORT TRANSFORMER MODULES

With Various Transmit Turns Ratios

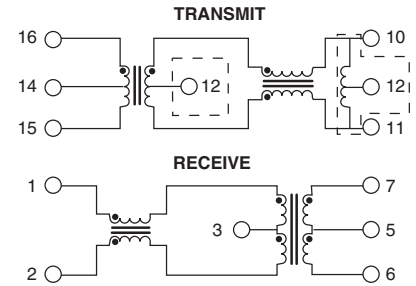
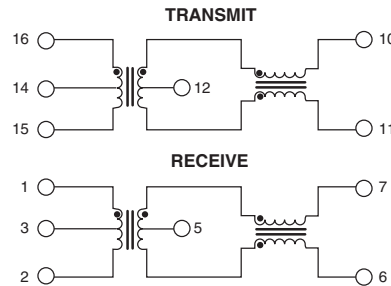
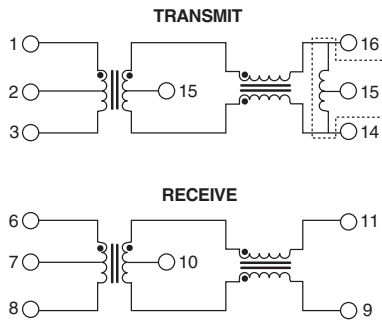


Schematics

H1013, H1033, H1043, H1093

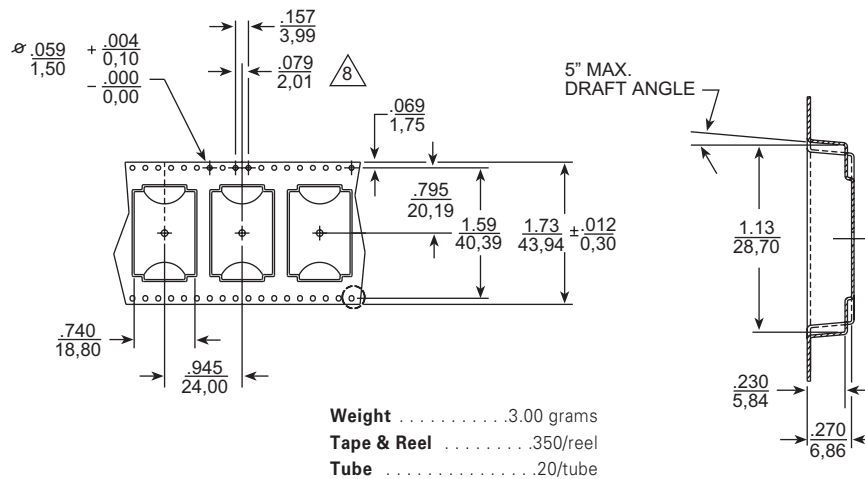
H1015

H1035, H1081, H1119



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

Tape and Reel Specifications



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

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