

10/100BASE-TX DUAL PORT TRANSFORMER MODULES

For Use with Transceivers Requiring
1:1 Transmit and Receive Turns Ratios



- Patented interlock base design
- Compliant with IEEE 802.3u and ANSI X3.263 standards including 350 μ H OCL with 8 mA bias
- Modules designed to support two RJ-45 connectors
- IC grade transfer-molded package withstands 235°C peak temperature profile

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

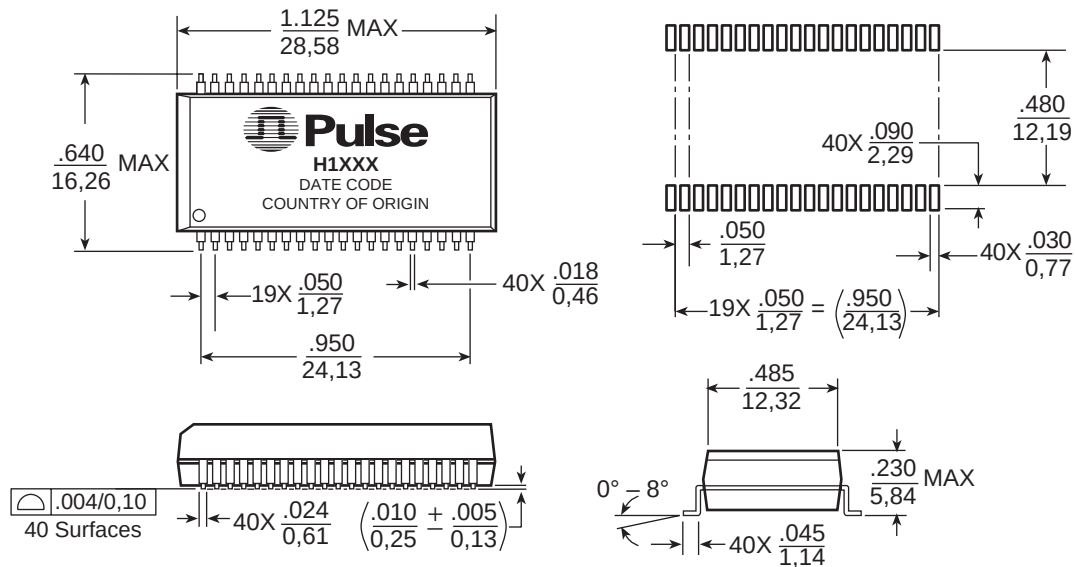
Part Number	Insertion Loss (dB TYP)	Return Loss (dB MIN)					Crosstalk (dB TYP)				Common to Common Rejection Ratio 0.1-60 MHz (dB TYP)		Differential to Common Mode Rejection (dB TYP)	
		0.1-100 MHz	2-30 MHz	40 MHz	50 MHz	60-80 MHz	1 MHz	30 MHz	60 MHz	100 MHz	Transmit	Receive	1-60 MHz	60-200 MHz
H1026	-0.5		-21	-17	-14.5	-12	-65	-55	-45	-35	-30	-30	-40	-30
H1027	-0.5		-21	-17	-14.5	-12	-65	-55	-45	-35	-45	-30	-53	-40
H1028	-0.5		-21	-17	-14.5	-12	-65	-55	-45	-35	-40	-30	-45	-35
H1049	-0.5		-21	-17	-14.5	-12	-65	-55	-45	-35	-40	-30	-45	-35
H1114	-1.2		-16	-14	-13	-12	-50	-45	-40	-35	-40	-30	-37	-33

NOTE: All models meet input/output breakdown (Hipot) of 1500 Vrms.

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

Mechanical

H1XXX



Dimensions: $\frac{\text{Inches}}{\text{mm}}$ Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$

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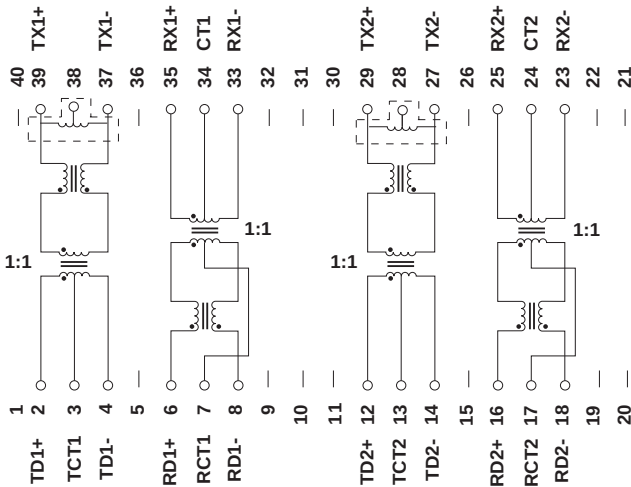
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Schematics

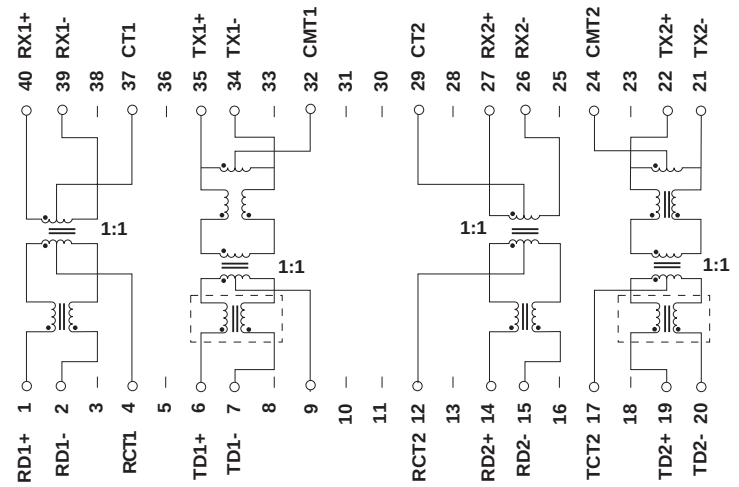
Dual Port Solutions: The H1027, H1028, H1049, and H1026 are designed to support two RJ-45 connectors. The H1027 and the H1028 have the same pinout. The H1027 has an additional common mode choke on both transmit channels. The H1049 and the H1026 offer different pinouts for design flexibility.

H1026, H1114



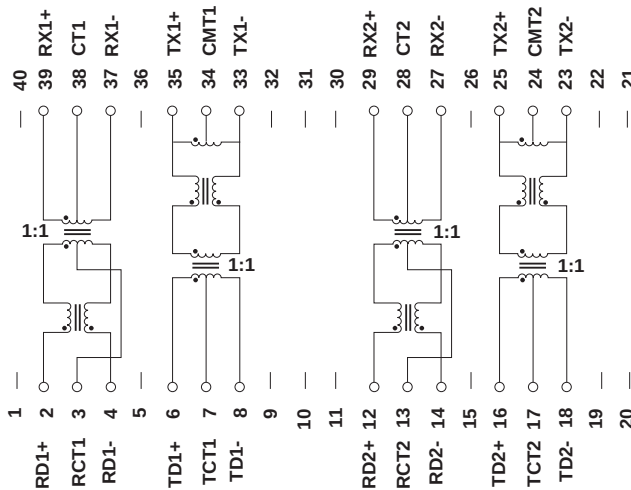
NOTE: H1114 includes the shunt choke.

H1027, H1028

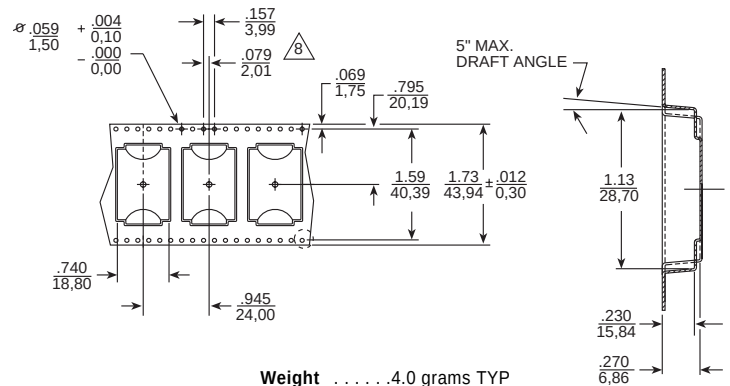


NOTE: H1027 has input common mode choke on pins 6-7 and pins 19-20. H1028 does not have the additional choke.

H1049



Tape & Reel Specifications



Weight 4.0 grams TYP
Tube15/tube
Tape & Reel250/reel

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PRELIMINARY H322.P (3/99)