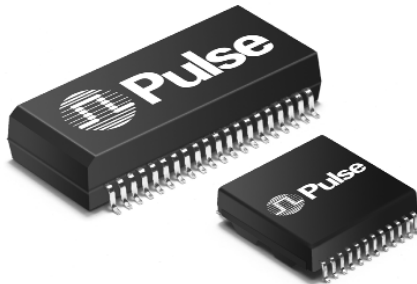


10/100BASE-TX DUAL PORT TRANSFORMER MODULES

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



-  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
-  Some models offer AutoMDIX capability

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

Part Number ¹	Insertion Loss (dB TYP)	Return Loss (dB MIN)				Crosstalk (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	1-60 MHz	60-200 MHz
H1026	-0.5	-21	-17	-14.5	-12	-65	-55	-45	-35	-40	-30
H1027	-0.5	-21	-17	-14.5	-12	-65	-55	-45	-35	-53	-40
H1028	-0.5	-21	-17	-14.5	-12	-65	-55	-45	-35	-45	-35
H1049	-0.5	-21	-17	-14.5	-12	-65	-55	-45	-35	-45	-35
H1114	-1.2	-16	-14	-13	-12	-50	-45	-40	-35	-37	-33
H1200 ²	-1.0	-16	-14.4	-13	-12	-50	-45	-40	-35	-37	-33
H1174	-1.2	-18	-16	-14	-12	-60	-45	-40	-35	-45	-35
H1270 ²	-1.2	-18	-16	-14	-12	-60	-45	-40	-35	-45	-35
HX1294 ³	-1.2	-16	-14	-13.5	-10	-55	-45	-40	-35	-30	-20

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

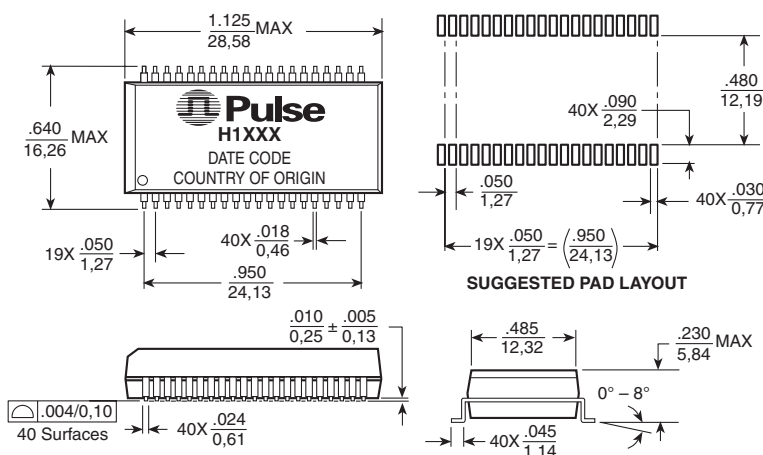
U.S. Patent No. 5,015,981

2. Suitable for AutoMDIX applications.

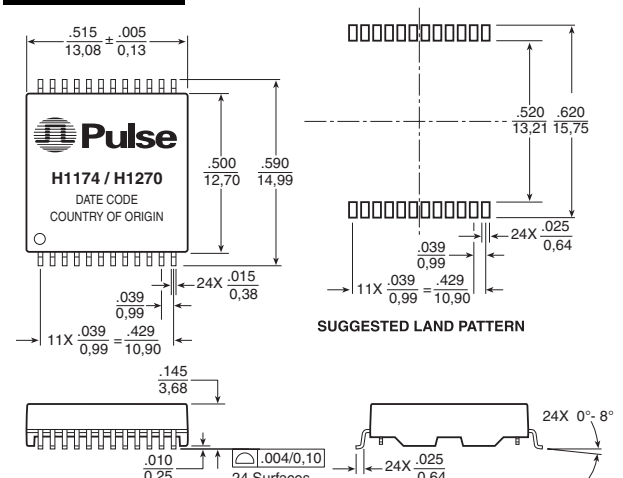
3. Operating Temperature -40°C to +85°C

Mechanicals

H1XXX



H1174/H1270



Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$

10/100BASE-TX DUAL PORT TRANSFORMER MODULES

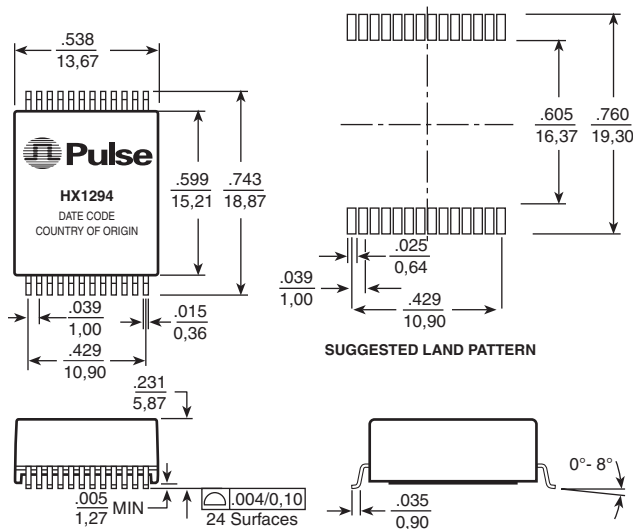
For Use with Transceivers Requiring 1:1 Transmit and Receive Turns Ratios



Mechanicals (continued)

Schematics

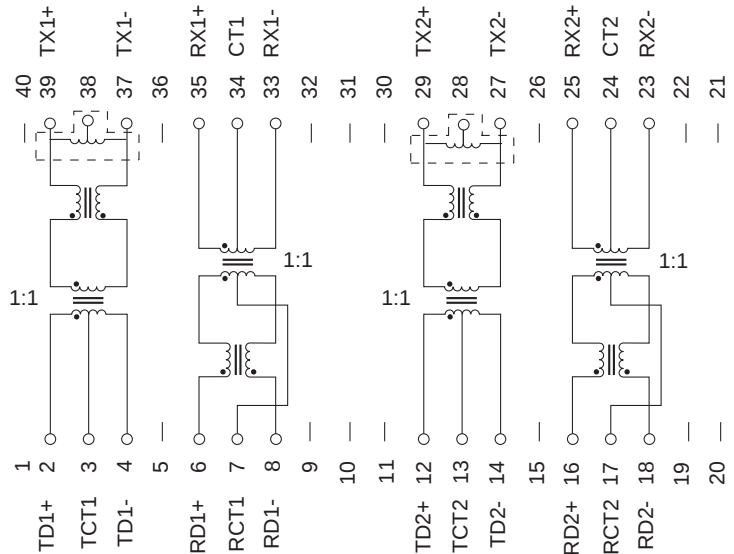
HX1294



Dimensions: Inches/mm
Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0,25}$

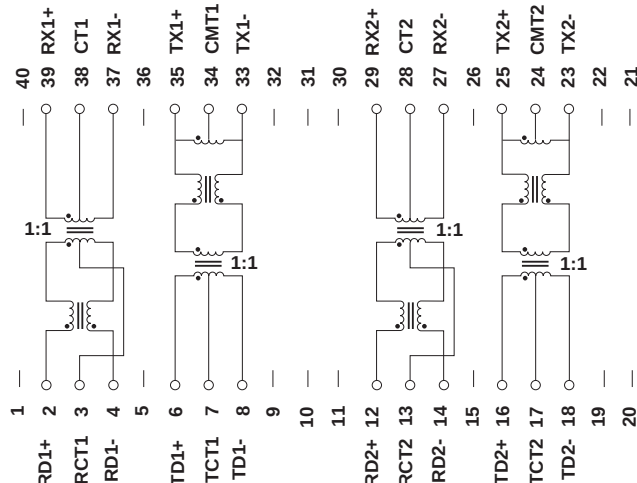
Weight: .16 grams
Tape & Reel: .300/reel
Tube: .35/tube

H1026, H1114

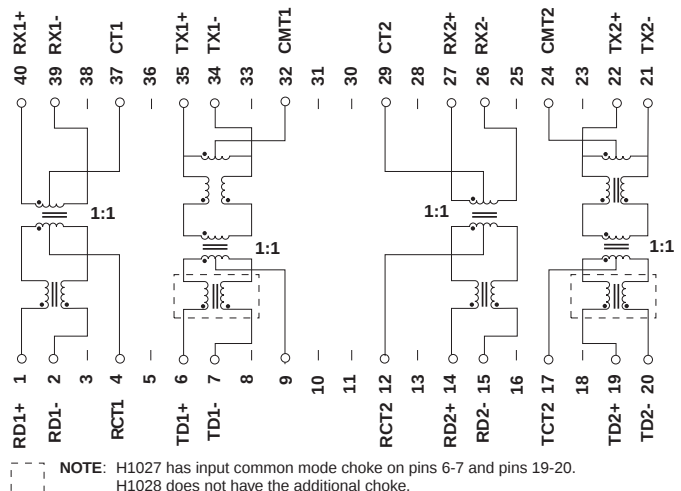


Schematics

H1049



H1027, H1028



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.

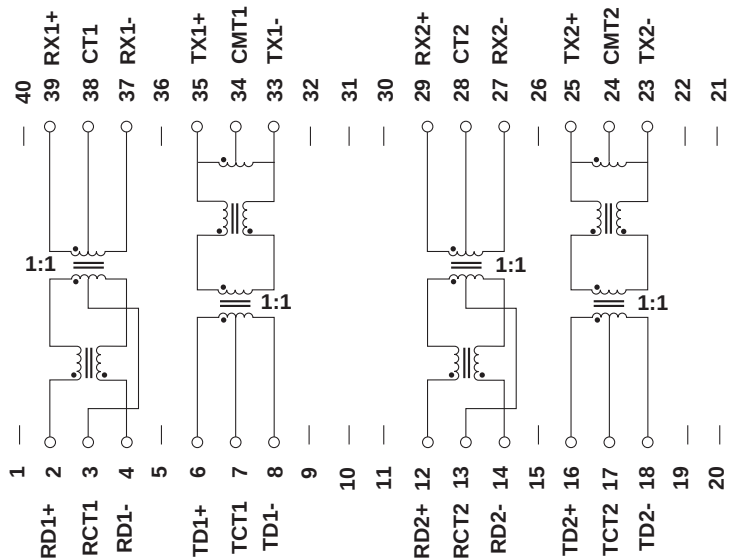
10/100BASE-TX DUAL PORT TRANSFORMER MODULES

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

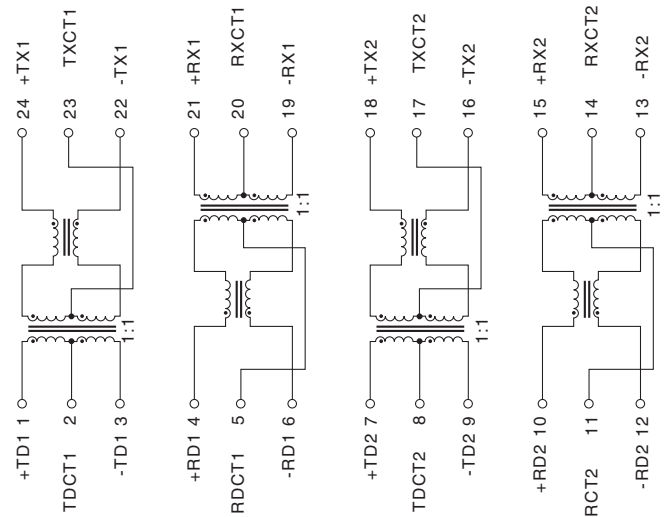


Schematics

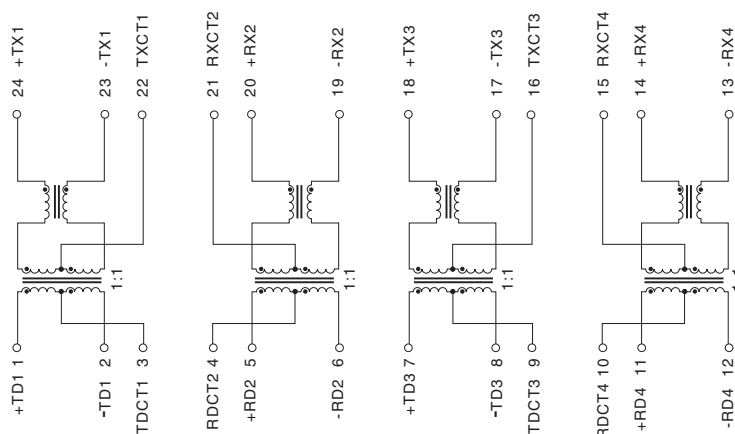
H1200



H1174



H1270, HX1294



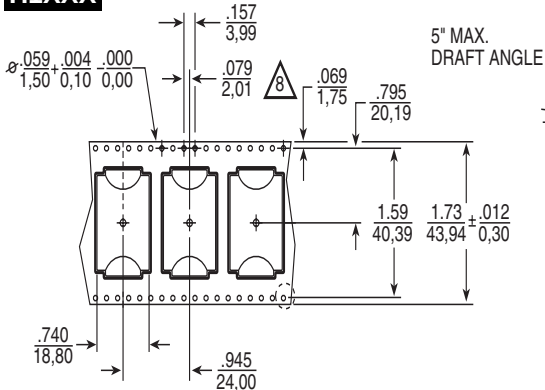
10/100BASE-TX DUAL PORT TRANSFORMER MODULES

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



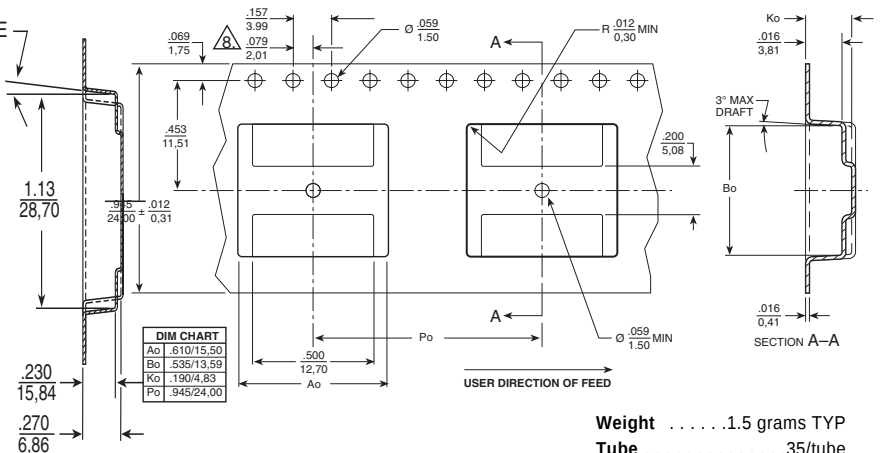
Tape & Reel Specifications

H1XXX



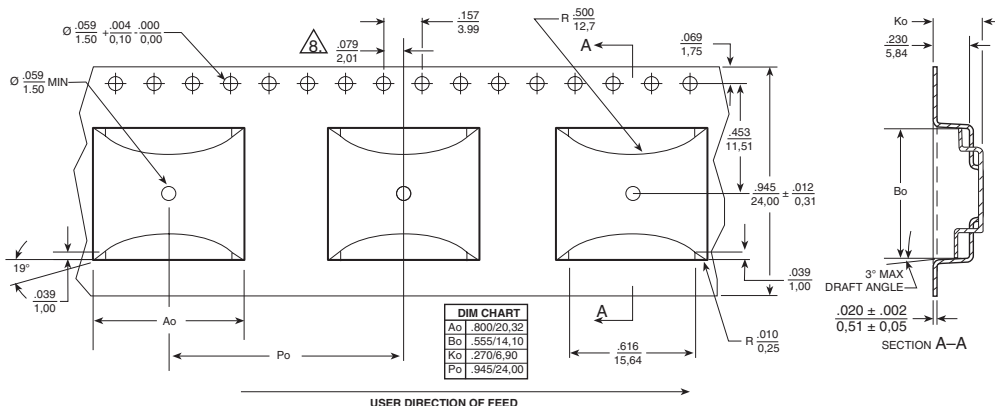
Weight4.0 grams TYP
Tube15/tube
Tape & Reel250/reel

H1174/H1270



Weight1.5 grams TYP
Tube35/tube
Tape & Reel500/reel

HX1294



For More Information :

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H322.C (12/03)