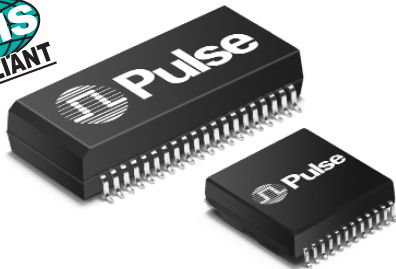






10/100BASE-TX DUAL PORT TRANSFORMER MODULES

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



-  RoHS-5 peak reflow temperature rating 235°C
-  RoHS-6 peak reflow temperature rating 245°C
-  Meets IEEE 802.3 specification
-  Some models offer AutoMDIX capability

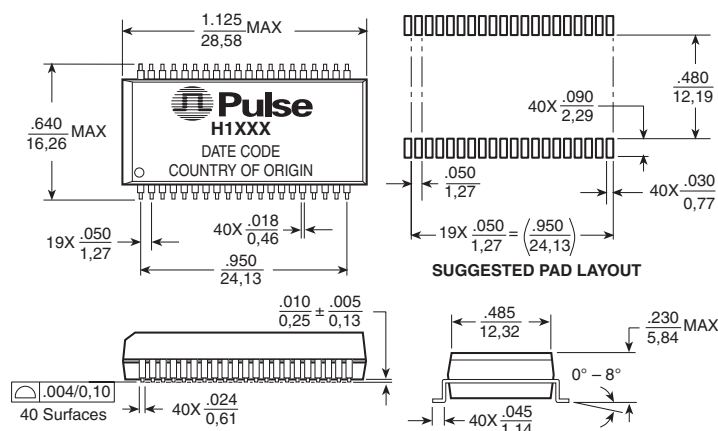
Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

RoHS-5 ⁴ Compliant Part Number	RoHS-6 ⁵ Compliant Part Number	Insertion Loss (dB TYP)	Return Loss (dB MIN)					Crosstalk (dB TYP)				Differential to Common Mode Rejection (dB TYP)	
			0.1-100MHz	2-30MHz	40MHz	50MHz	60-80MHz	1MHz	30MHz	60MHz	100MHz	1-60MHz	60-200MHz
H1026	—	-0.5		-21	-17	-14.5	-12	-65	-55	-45	-35	-40	-30
H1027	H1027NL ^{6d}	-0.5		-21	-17	-14.5	-12	-65	-55	-45	-35	-53	-40
H1028	H1028NL ^{6d}	-0.5		-21	-17	-14.5	-12	-65	-55	-45	-35	-45	-35
H1049	H1049 NL ^{6d}	-0.5		-21	-17	-14.5	-12	-65	-55	-45	-35	-45	-35
H1114	H1114 NL ^{6d}	-1.2		-16	-14	-13	-12	-50	-45	-40	-35	-37	-33
H1200	H1200NL ^{6d}	-1.0		-16	-14.4	-13	-12	-50	-45	-40	-35	-37	-33
H1174	H1174 NL ^{6a}	-1.2		-18	-16	-14	-12	-60	-45	-40	-35	-45	-35
H1270 ²	H1270NL ^{2, 6a}	-1.2		-18	-16	-14	-12	-60	-45	-40	-35	-45	-35
HX1294 ³	HX1294NL ^{3, 6c}	-1.2		-16	-14	-13.5	-10	-55	-45	-40	-35	-30	-20

1. All models meet input/output breakdown (Hipot) of 1500 Vrms.
2. Suitable for AutoMDIX applications.
3. Operating Temperature -40°C to +85°C.
4. 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).
5. 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).
6. MSL= Moisture Sensitivity Level a=1 b=2 c=3 d=4.

Mechanicals

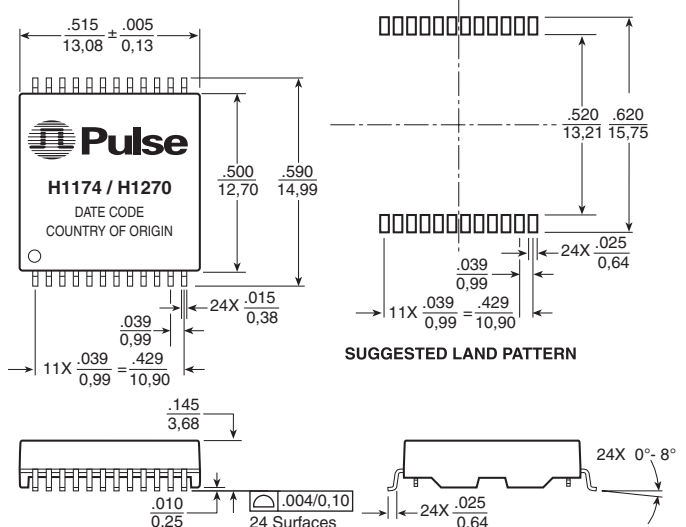
H1XXX



Dimensions: Inches
mm

Unless otherwise specified, all tolerances are ± .010
0.25

H1174/H1270



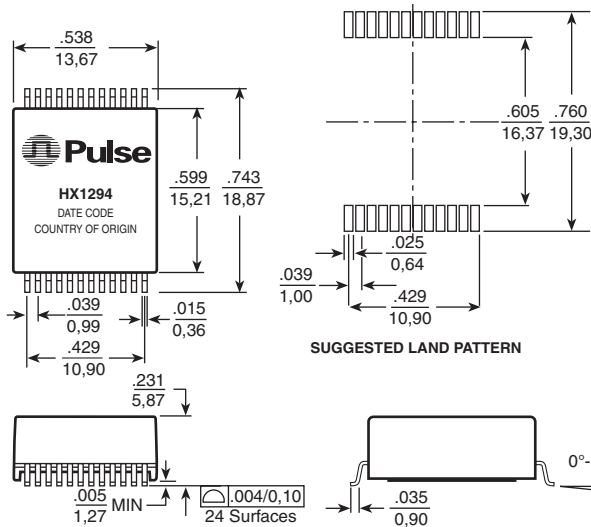
10/100BASE-TX DUAL PORT TRANSFORMER MODULES

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



Mechanicals (continued)

HX1294



Dimensions: Inches
mm

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

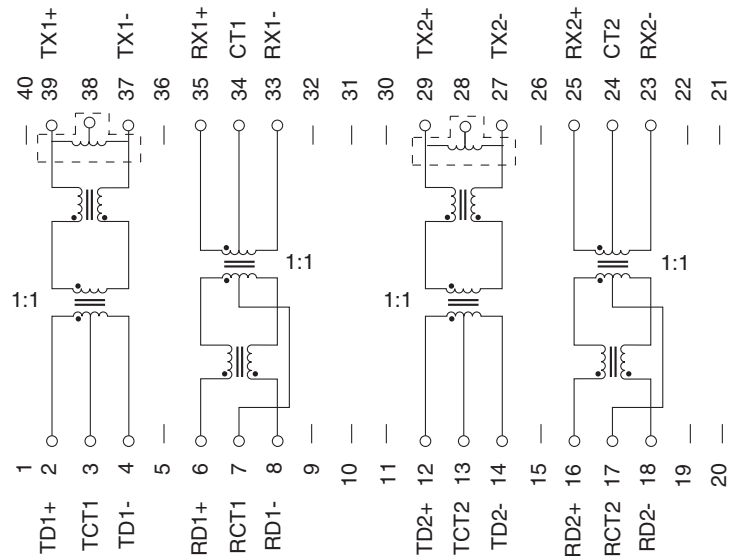
Weight1.6 grams

Tape & Reel300/reel

Tube35/tube

Schematics

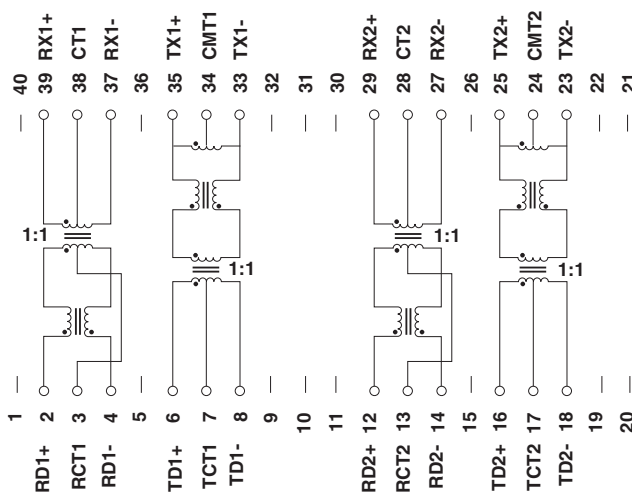
H1026, H1114



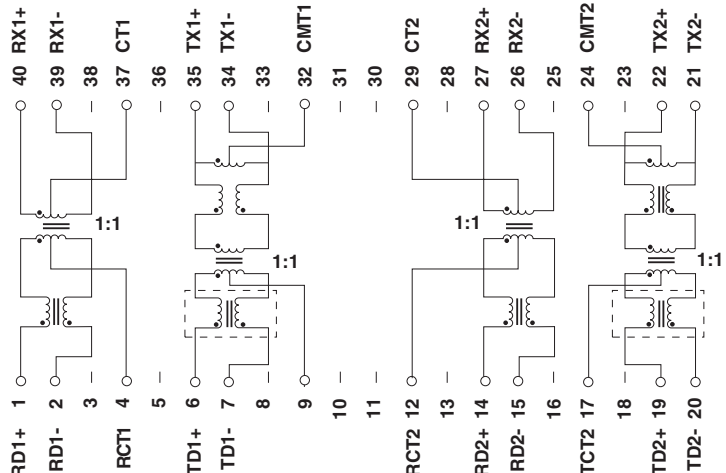
NOTE: H1114 includes the shunt choke.

Schematics (continued)

H1049



H1027, H1028



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

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

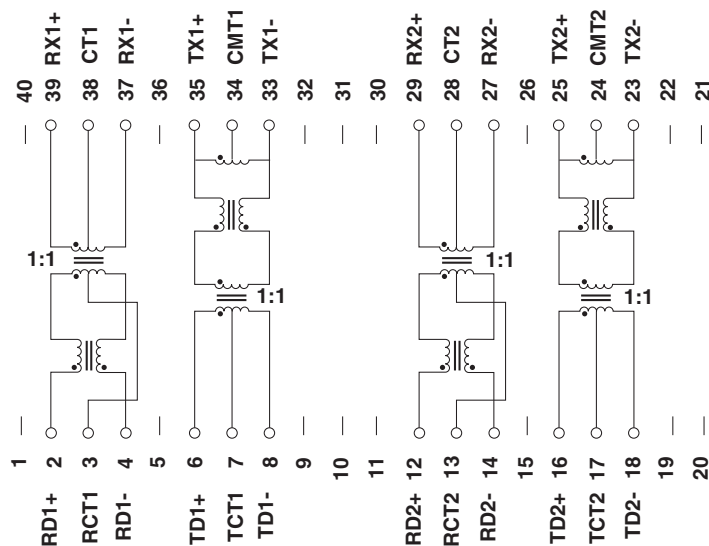
For Use with Transceivers Requiring 1:1 Transmit and Receive Turns Ratios



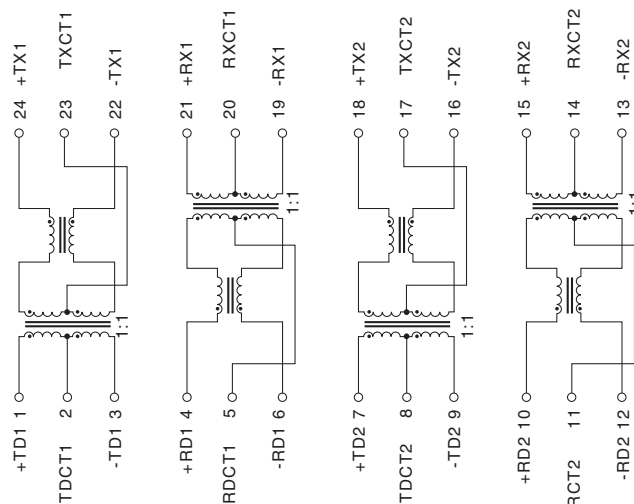
A TECHNITROL COMPANY

Schematics (continued)

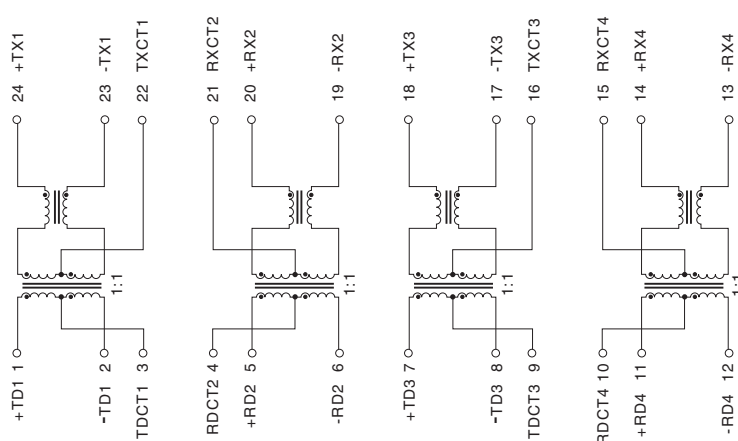
H1200



H1174



H1270, HX1294



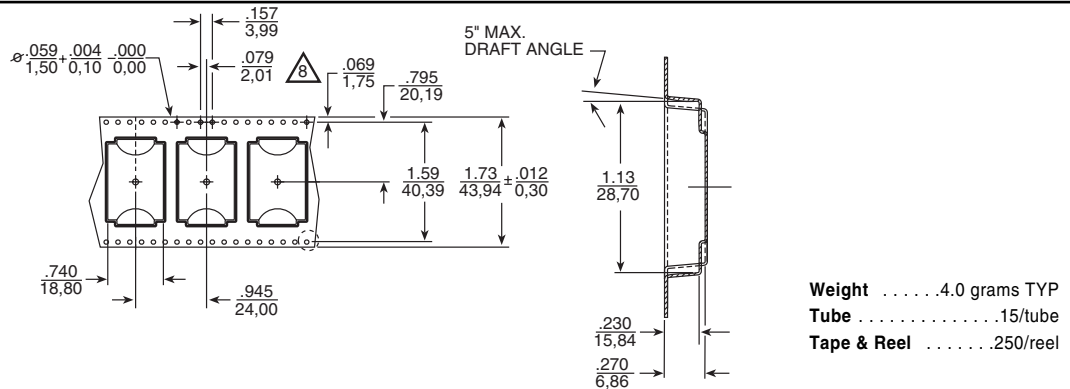
10/100BASE-TX DUAL PORT TRANSFORMER MODULES

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

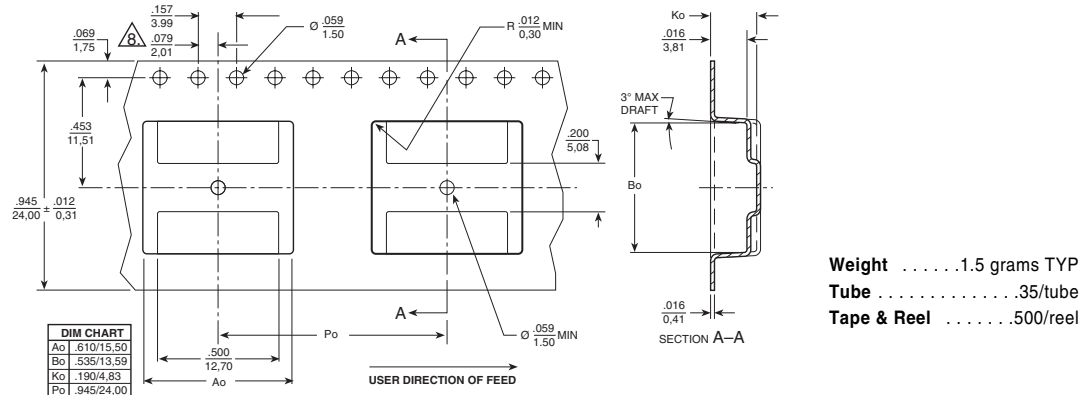


Tape & Reel Specifications

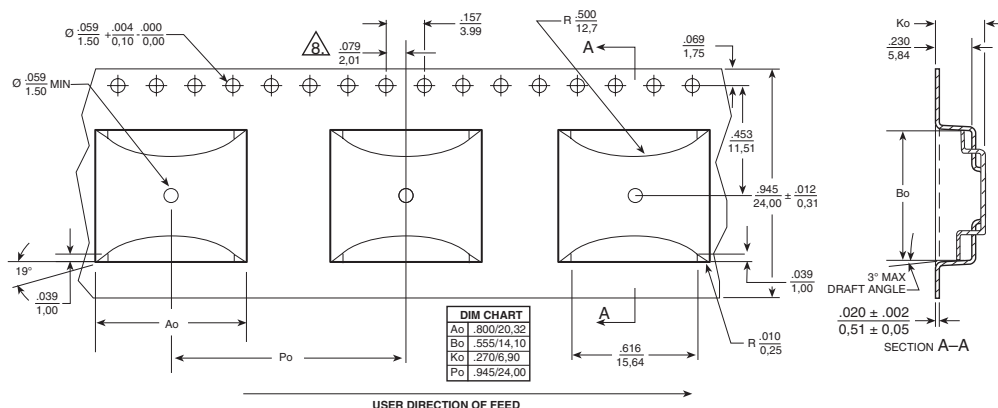
H1XXX



H1174/H1270



HX1294



For More Information:

Pulse Worldwide Headquarters
 12220 World Trade Dr.
 San Diego, CA 92128
 U.S.A.

Pulse Europe
 Einsteinstrasse 1
 D-71083 Herrenberg
 Germany

Pulse China Headquarters
 B402, Shenzhen
 Tech-Innovation International
 Tenth Kejian Rd.
 High-Tech Industrial Park
 Nanshan District, Shenzhen
 China
 Tel: 86 755 33966678
 Fax: 86 755 33966700

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

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

www.pulseeng.com

Tel: 858 674 8100
 Fax: 858 674 8262

Tel: 49 7032 7806 0

Fax: 49 7032 7806 135

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