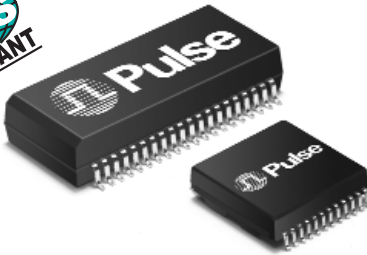


10/100BASE-TX DUAL PORT TRANSFORMER MODULES

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

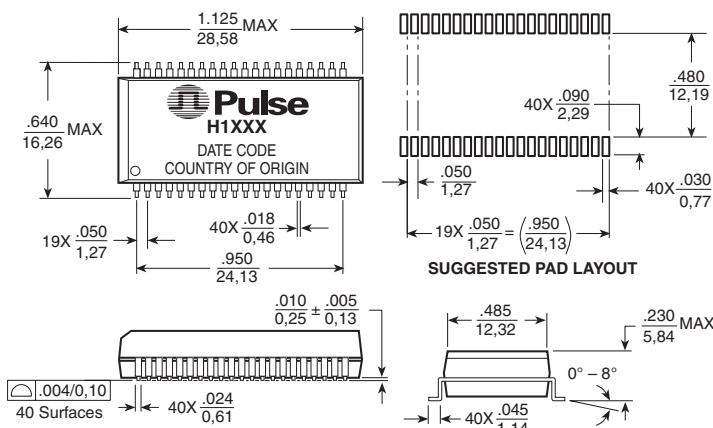
Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

RoHS-6 ⁵ Compliant Part Number	RoHS-5 ⁴ 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
H1026NL	H1026	-0.5		-21	-17	-14.5	-12	-65	-55	-45	-35	-40	-30
H1027NL ^{6d}	H1027	-0.5		-21	-17	-14.5	-12	-65	-55	-45	-35	-53	-40
H1028NL ^{6d}	H1028	-0.5		-21	-17	-14.5	-12	-65	-55	-45	-35	-45	-35
H1049 NL ^{6d}	—	-0.5		-21	-17	-14.5	-12	-65	-55	-45	-35	-45	-35
H1114 NL ^{6d}	H1114	-1.2		-16	-14	-13	-12	-50	-45	-40	-35	-37	-33
H1200NL ^{6d}	—	-1.0		-16	-14.4	-13	-12	-50	-45	-40	-35	-37	-33
H1174 NL ^{6a}	H1174	-1.2		-18	-16	-14	-12	-60	-45	-40	-35	-45	-35
H1270NL ^{2, 6a}	H1270 ^{2, 6a}	-1.2		-18	-16	-14	-12	-60	-45	-40	-35	-45	-35
HX1294NL ^{2, 3, 6a}	HX1294 ^{2, 3, 6c}	-1.2		-16	-14	-13.5	-10	-55	-45	-40	-35	-30	-20

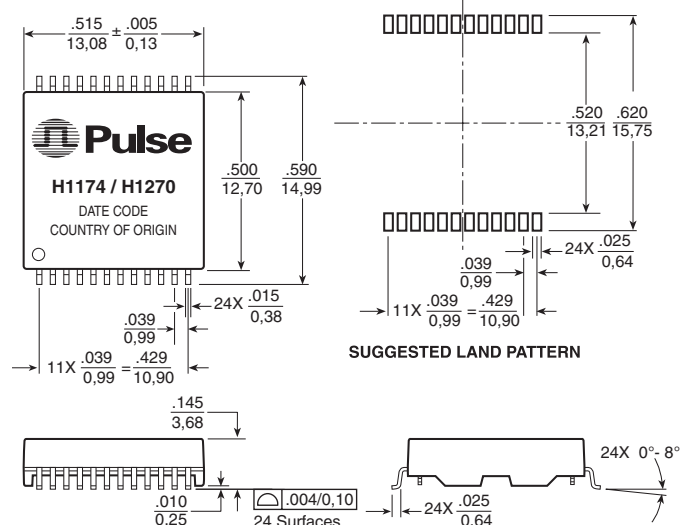
- All models** meet input/output breakdown (Hipot) of 1500 Vrms.
- Suitable** for AutoMDIX applications.
- Operating Temperature** -40°C to +85°C.
- RoHS-5:** Product does not contain 5 out of the 6 banned substances specified in the RoHS directive (product contains lead in applications considered solder).
- 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).
- MSL** = Moisture Sensitivity Level **a=1 b=2 c=3 d=4.**

Mechanicals

H1XXX



H1174/H1270



10/100BASE-TX DUAL PORT TRANSFORMER MODULES

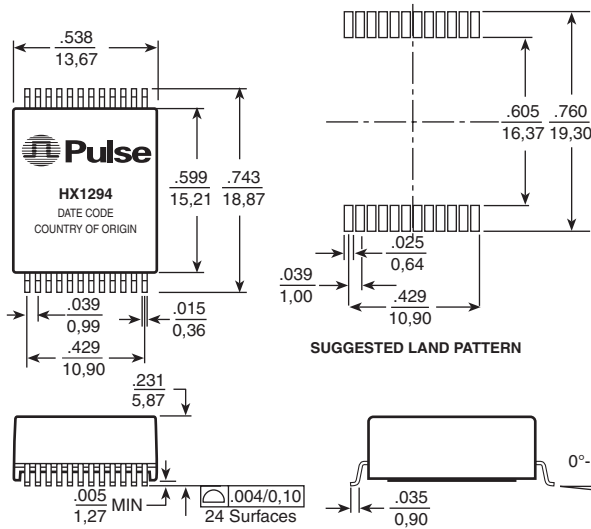
For Use with Transceivers Requiring 1:1 Transmit and Receive Turns Ratios



Mechanicals (continued)

Schematics

HX1294

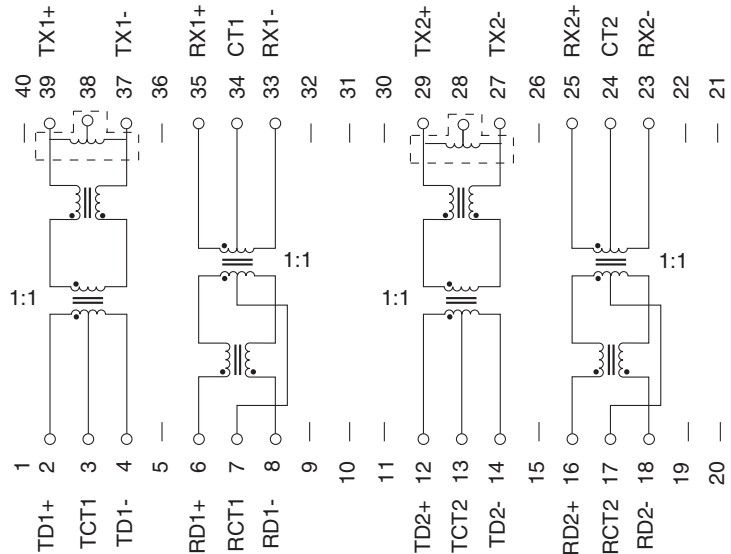


Dimensions: Inches
mm

Unless otherwise specified,
all tolerances are $\pm .010$
0,25

Weight1.6 grams
Tape & Reel300/reel
Tube35/tube

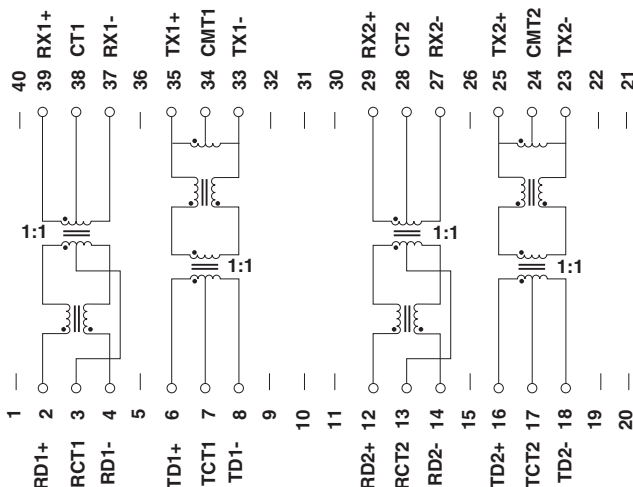
H1026, H1114



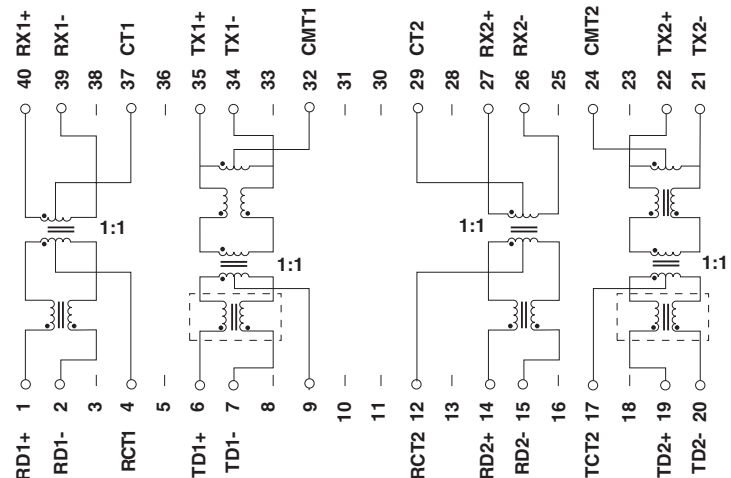
NOTE: H1114 includes the shunt choke.

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

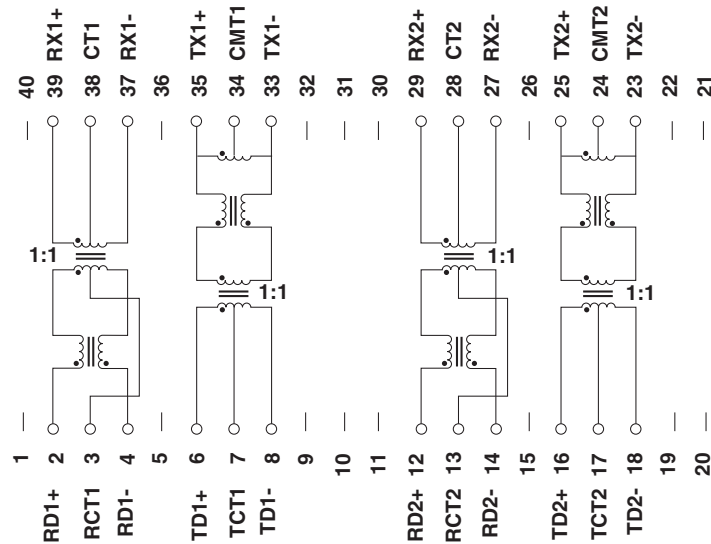
For Use with Transceivers Requiring
1:1 Transmit and Receive Turns Ratios



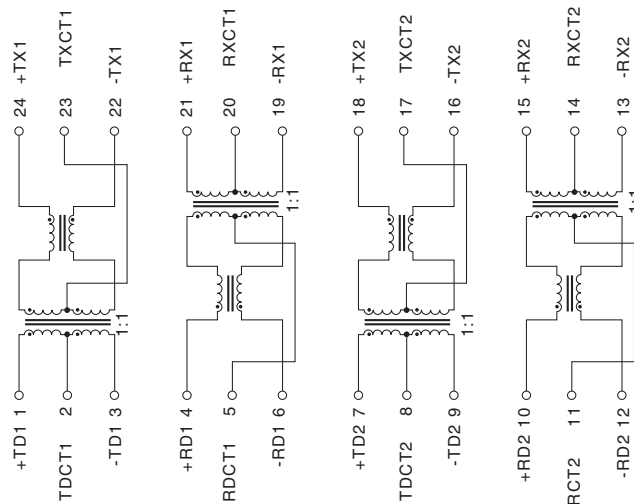
Pulse
A TECHNITROL COMPANY

Schematics (continued)

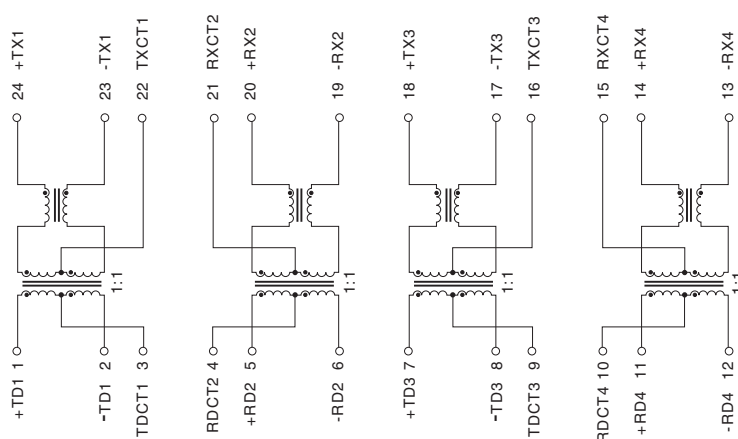
H1200



H1174



H1270, HX1294



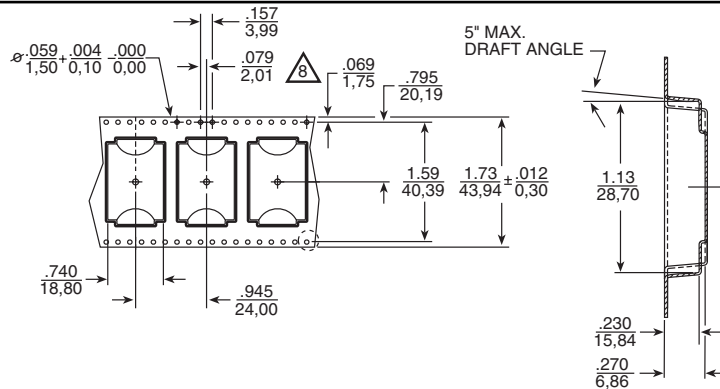
10/100BASE-TX DUAL PORT TRANSFORMER MODULES

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



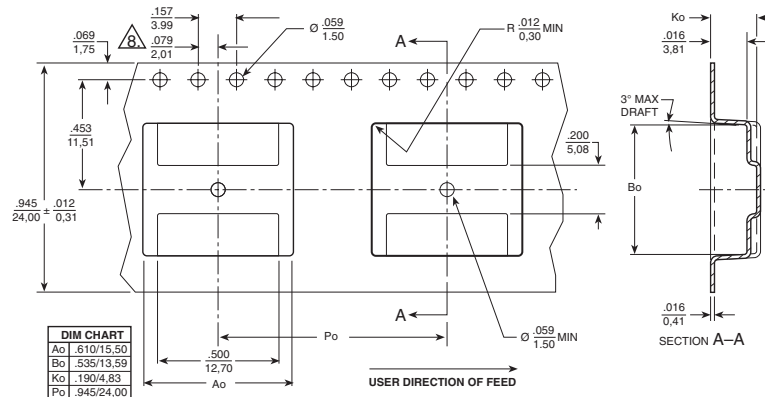
Tape & Reel Specifications

H1XXX



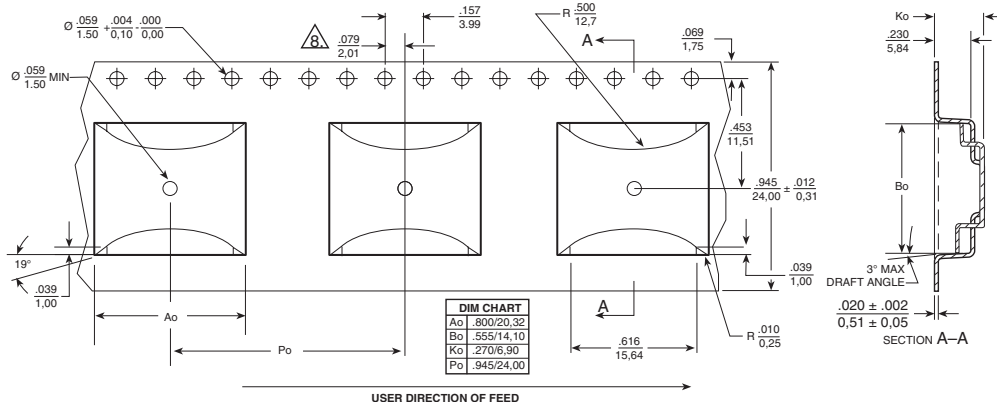
Weight 4.0 grams TYP
Tube15/tube
Tape & Reel250/reel

H1174/H1270



Weight 1.5 grams TYP
Tube35/tube
Tape & Reel500/reel

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 Academy of
Aerospace Technology Bldg.
10th Kejinan Rd.
High-Tech Zone
Nanshan District
Shenzhen, PR China 518057
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
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 4643715
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

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners.

© Copyright, 2008. Pulse Engineering, Inc. All rights reserved.

www.pulseeng.com

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Pulse:

H1026