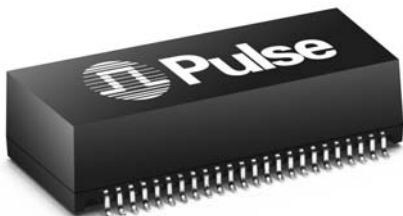


1000BASE-T DUAL PORT MAGNETIC MODULES

Designed to Support 1:1 Turns
Ratio Transceivers



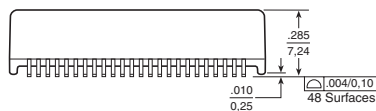
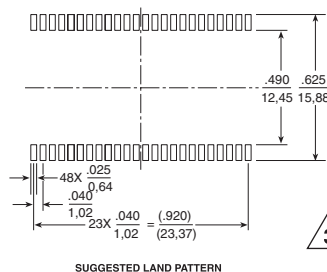
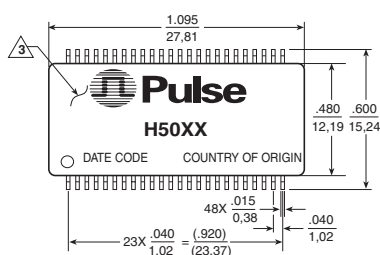
- Designed for Ethernet 100/1000Base-T full duplex applications
- Supports 4 pairs of category 5 UTP cable
- Cable interface for isolation and low common mode emissions
- Compliant with IEEE 802.3ab standard for 1000Base-T

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

Part Number	Insertion Loss (dB MAX)	Return Loss (dB MIN @ 100 Ω)					Differential to Common Mode Rejection (dB MIN)			Crosstalk (dB MIN)			Hipot (Vrms MIN)
	1-100 MHz	1-30 MHz	40 MHz	50 MHz	60-80 MHz	100 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz	
H5012	-1.4	-16	-14.4	-13.1	-12	-10	-45	-40	-35	-43.5	-37.5	-33	1500
H5014	-1.4	-16	-14.4	-13.1	-12	-10	-45	-40	-35	-43.5	-37.5	-33	1500
H5020	1.0	-18	-14.4	-13.1	-12	-10	-40	-35	-30	-40	-35	-30	1500

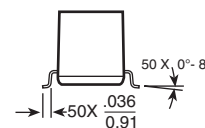
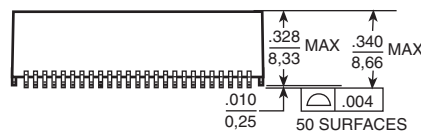
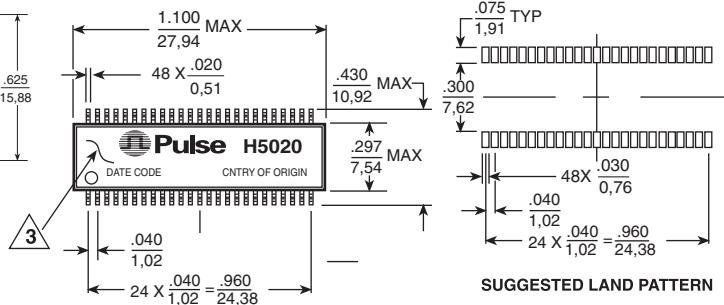
Mechanicals

H5012, H5014



Weight 4.0 grams
Tape & Reel 250/reel
Tube 15/tube

H5020



Weight1.6 grams
Tape & Reel250/reel
Tube15/tube

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

mm
Unless otherwise specified, all tolerances are $\pm \frac{.010}{.025}$

1000BASE-T DUAL PORT MAGNETIC MODULES

Designed to Support 1:1 Turns
Ratio Transceivers



Schematics

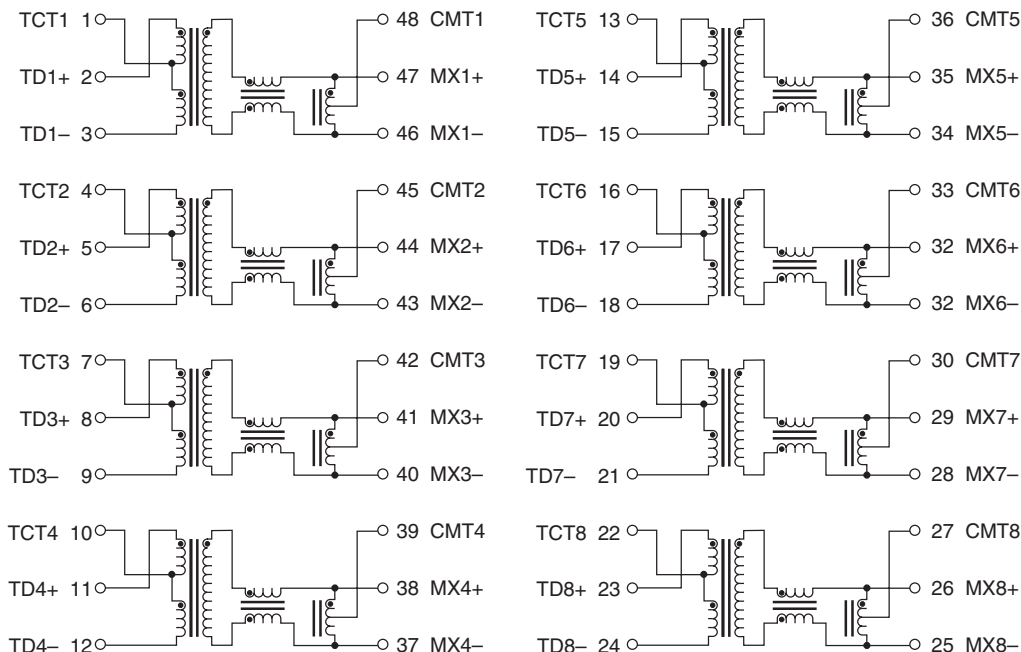
H5012

LEGEND

Td $\longleftrightarrow$ Mx
Td $\longleftrightarrow$ Mx
Td $\longleftrightarrow$ Mx
Td $\longleftrightarrow$ Mx
Td $\longleftrightarrow$ Mx
Td $\longleftrightarrow$ Mx
Td $\longleftrightarrow$ Mx

CHIP SIDE **MEDIA SIDE**

ALL CHANNELS ARE
IN PHASE BETWEEN
INPUT AND OUTPUT



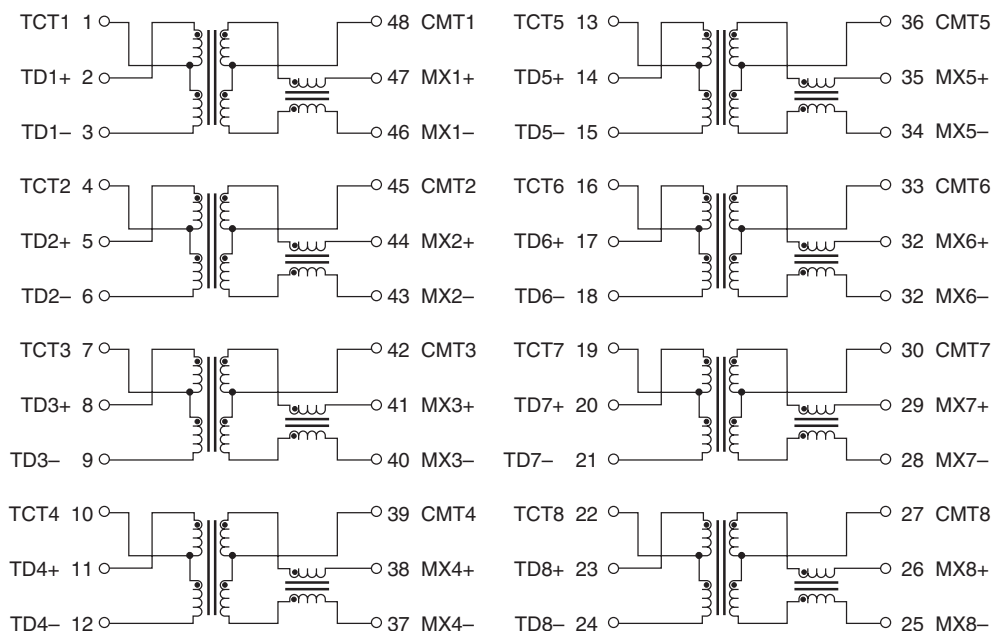
H5014

LEGEND

Td $\longleftrightarrow$ Mx
Td $\longleftrightarrow$ Mx
Td $\longleftrightarrow$ Mx
Td $\longleftrightarrow$ Mx
Td $\longleftrightarrow$ Mx
Td $\longleftrightarrow$ Mx
Td $\longleftrightarrow$ Mx

CHIP SIDE **MEDIA SIDE**

ALL CHANNELS ARE
IN PHASE BETWEEN
INPUT AND OUTPUT



1000BASE-T DUAL PORT MAGNETIC MODULES

Designed to Support 1:1 Turns
Ratio Transceivers



Schematics (continued)

H5020

LEGEND

CHIP SIDE MEDIA SIDE

Td $\longleftrightarrow$ Mx

Td $\longleftrightarrow$ Mx

Td $\longleftrightarrow$ Mx

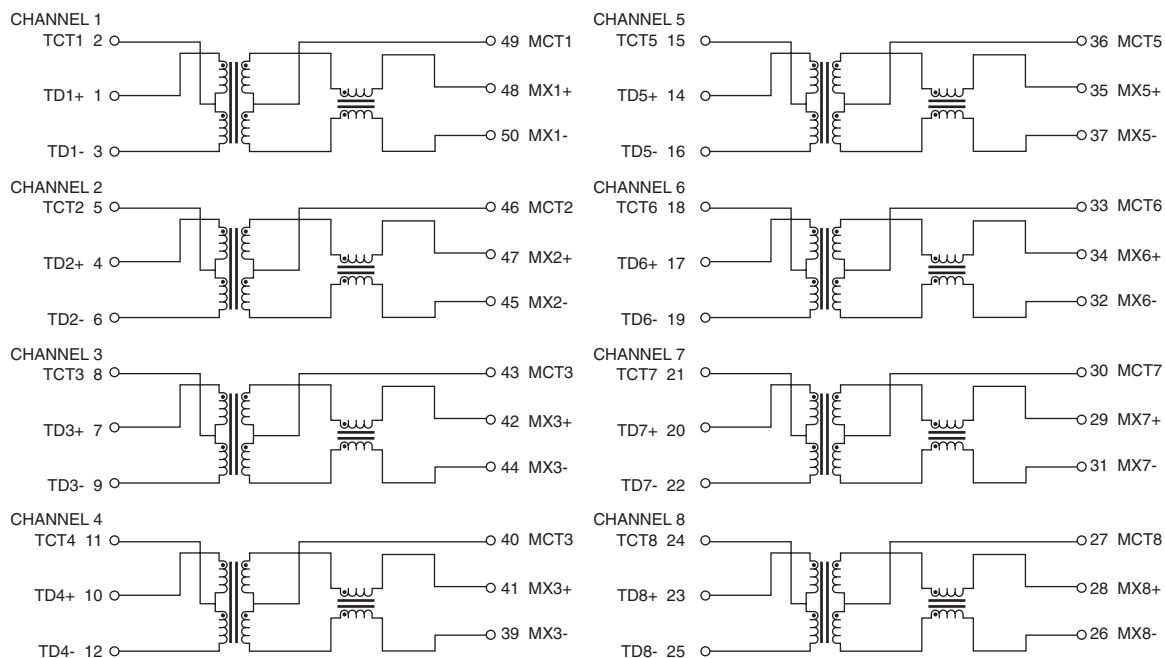
Td $\longleftrightarrow$ Mx

Td $\longleftrightarrow$ Mx

Td $\longleftrightarrow$ Mx

Td $\longleftrightarrow$ Mx

ALL CHANNELS ARE
IN PHASE BETWEEN
INPUT AND OUTPUT



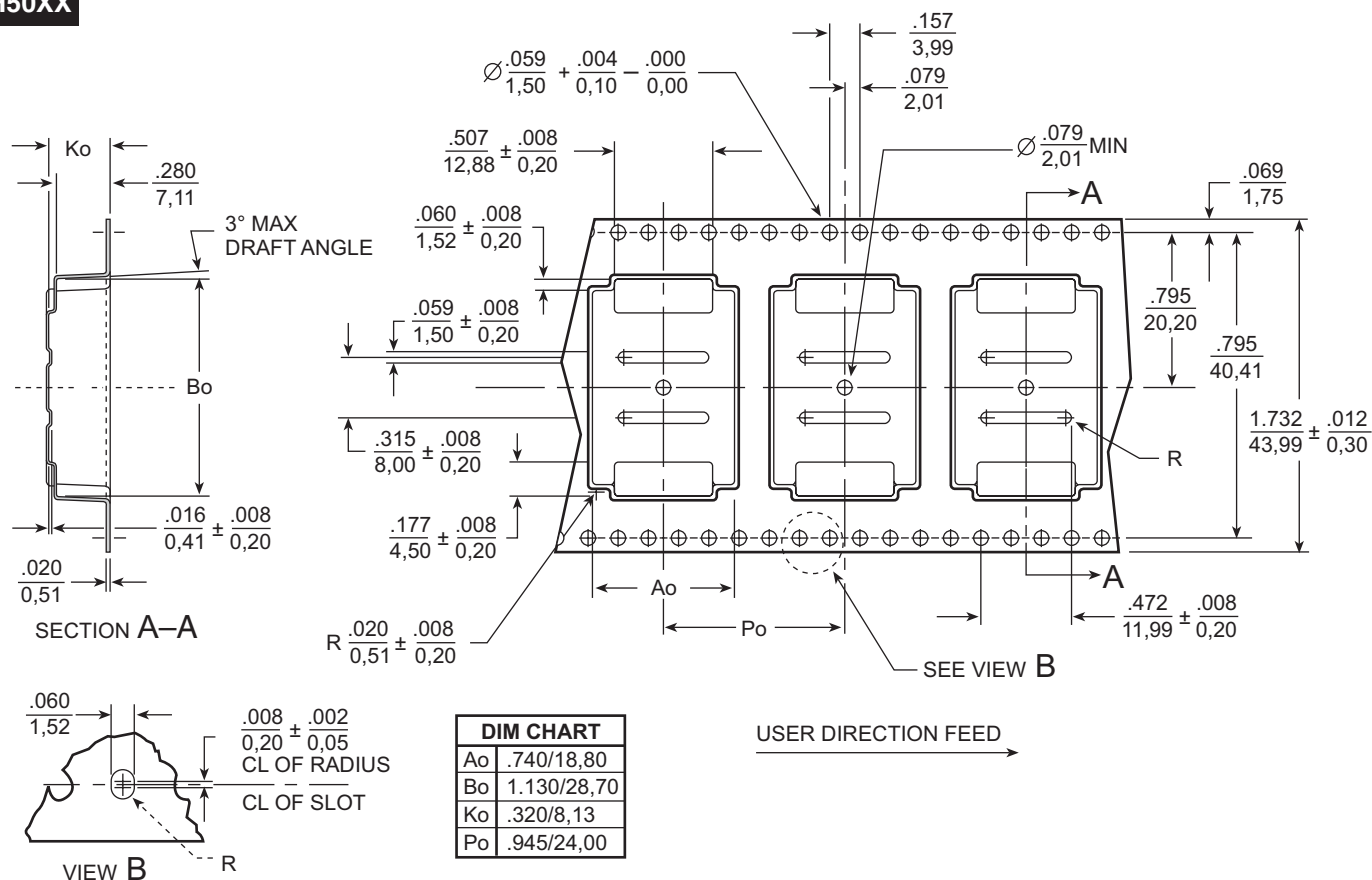
1000BASE-T DUAL PORT MAGNETIC MODULES

Designed to Support 1:1 Turns
Ratio Transceivers



Tape & Reel Specifications

H50XX



For More Information :

UNITED STATES (Worldwide)

12220 World Trade Drive
San Diego, CA 92128
U.S.A.
<http://www.pulseeng.com>
TEL: 619 674 8100
FAX: 619 674 8262

UNITED KINGDOM (Northern Europe)

1 & 2 Huxley Road
The Surrey Research Park
Guildford, Surrey GU2 5RE
United Kingdom
TEL: 44 1483 401700
FAX: 44 1483 401701

FRANCE (Southern Europe)

Zone Industrielle
F-39270
Orgelet
France
TEL: 33 3 84 35 04 04
FAX: 33 3 84 25 46 41

SINGAPORE (Southern Asia)

150 Kampong Ampat
#07-01/02
KA Centre
Singapore 368324
TEL: 65 287 8998
FAX: 65 280 0080

TAIWAN, R.O.C. (Northern Asia)

3F-4, No. 81, Sec. 1
HsinTai Wu Road
Hsi-Chih, Taipei Hsien
Taiwan, R.O.C.
Tel: 886 2 2698 0228
FAX: 886 2 2698 0948

HONG KONG (Great China)

19/F, China United Plaza
1008 Tai Nan West Street
Cheung Sha Wan, Kowloon
Hong Kong, China
TEL: 852 2788 6588
FAX: 852 2776 1055

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H503.B (7/02)