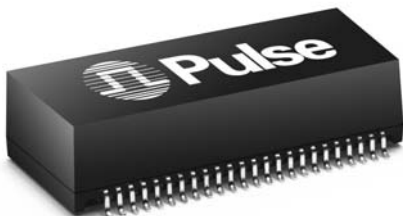


1000BASE-T DUAL PORT MAGNETIC MODULES

Designed to Support 1:1 Turns Ratio Transceivers



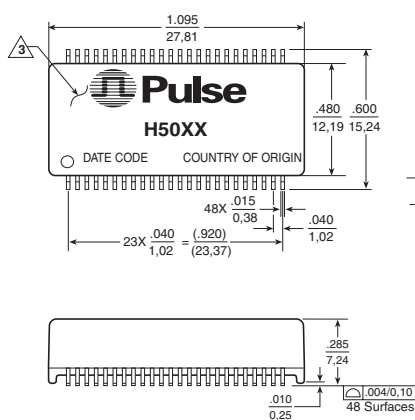
- Designed for Ethernet 100/1000Base-T full duplex applications
- Supports 4 pairs of category 5 UTP cable
- Cable interface for isolation and low common mode emissions
- Compliant with IEEE 802.3ab standard for 1000Base-T

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	

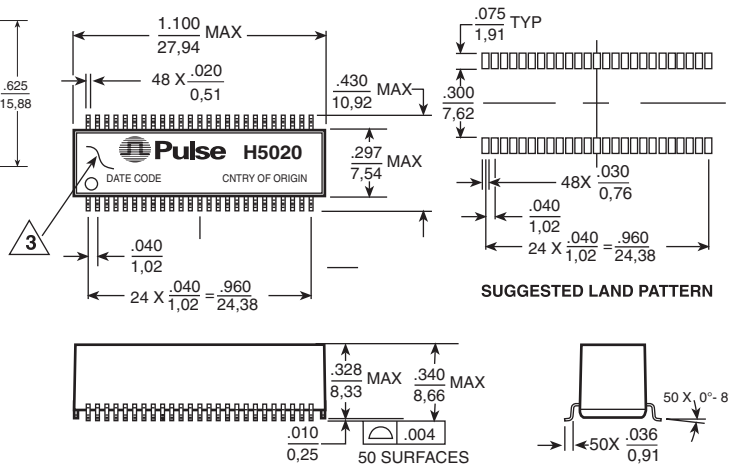
Mechanicals

H5012, H5014



Weight 4.0 grams
Tape & Reel250/reel
Tube15/tube

H5020



Weight 1.6 grams
Tape & Reel250/reel
Tube15/tube

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

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

1000BASE-T DUAL PORT MAGNETIC MODULES

Designed to Support 1:1 Turns
Ratio Transceivers



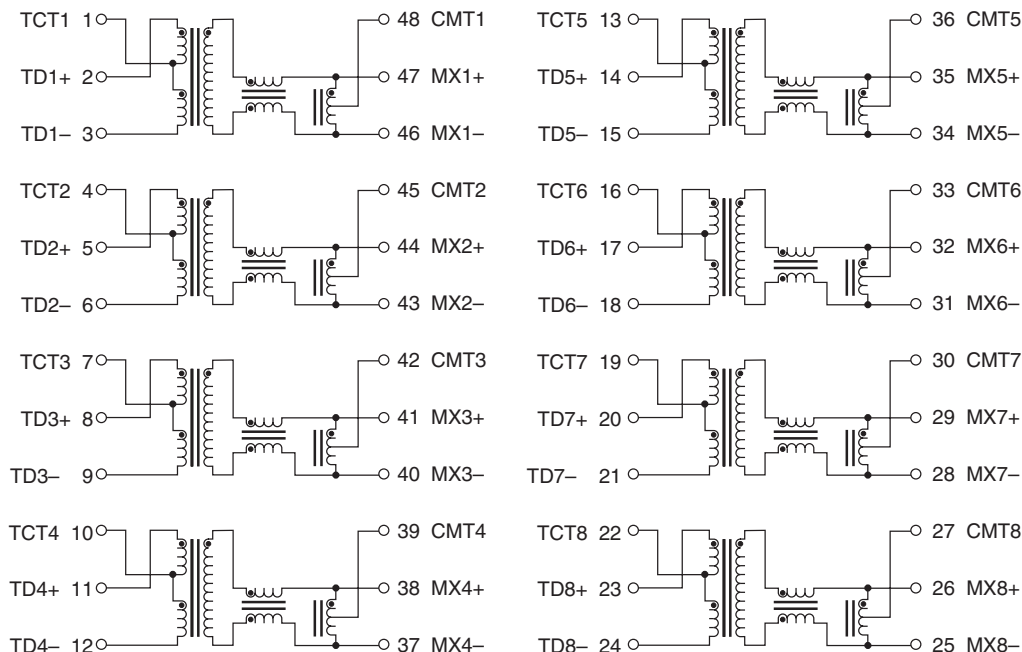
Schematics

H5012

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

CHIP SIDE
MEDIA SIDE

ALL CHANNELS ARE
IN PHASE BETWEEN
INPUT AND OUTPUT

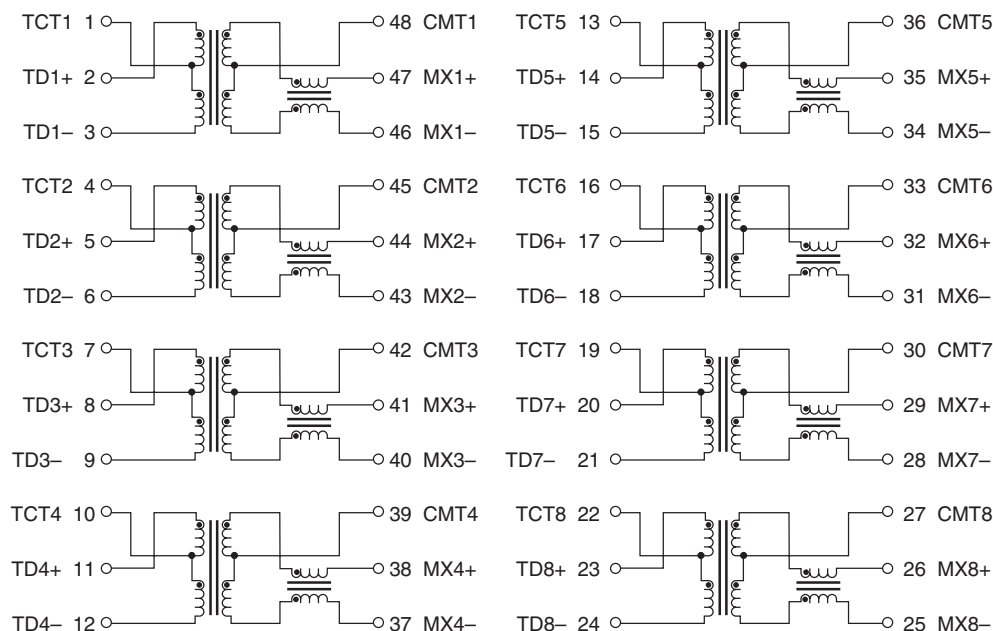


H5014

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

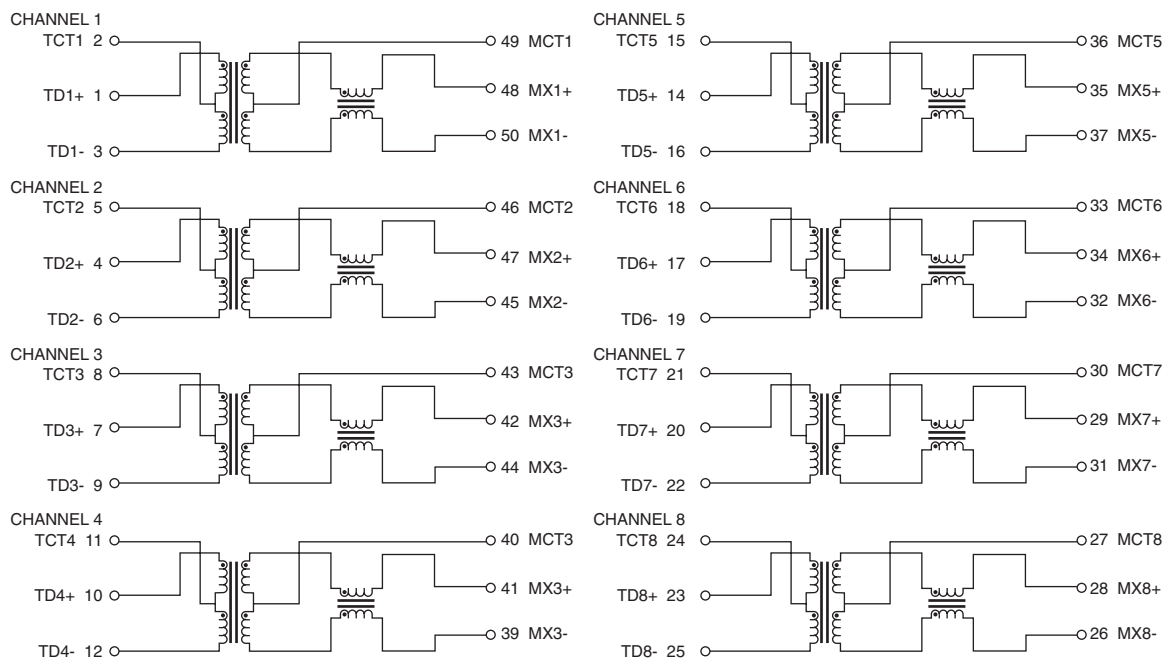
Td $\longleftrightarrow$ Mx

Td $\longleftrightarrow$ Mx

Td $\longleftrightarrow$ Mx

Td $\longleftrightarrow$ Mx

ALL CHANNELS ARE
IN PHASE BETWEEN
INPUT AND OUTPUT



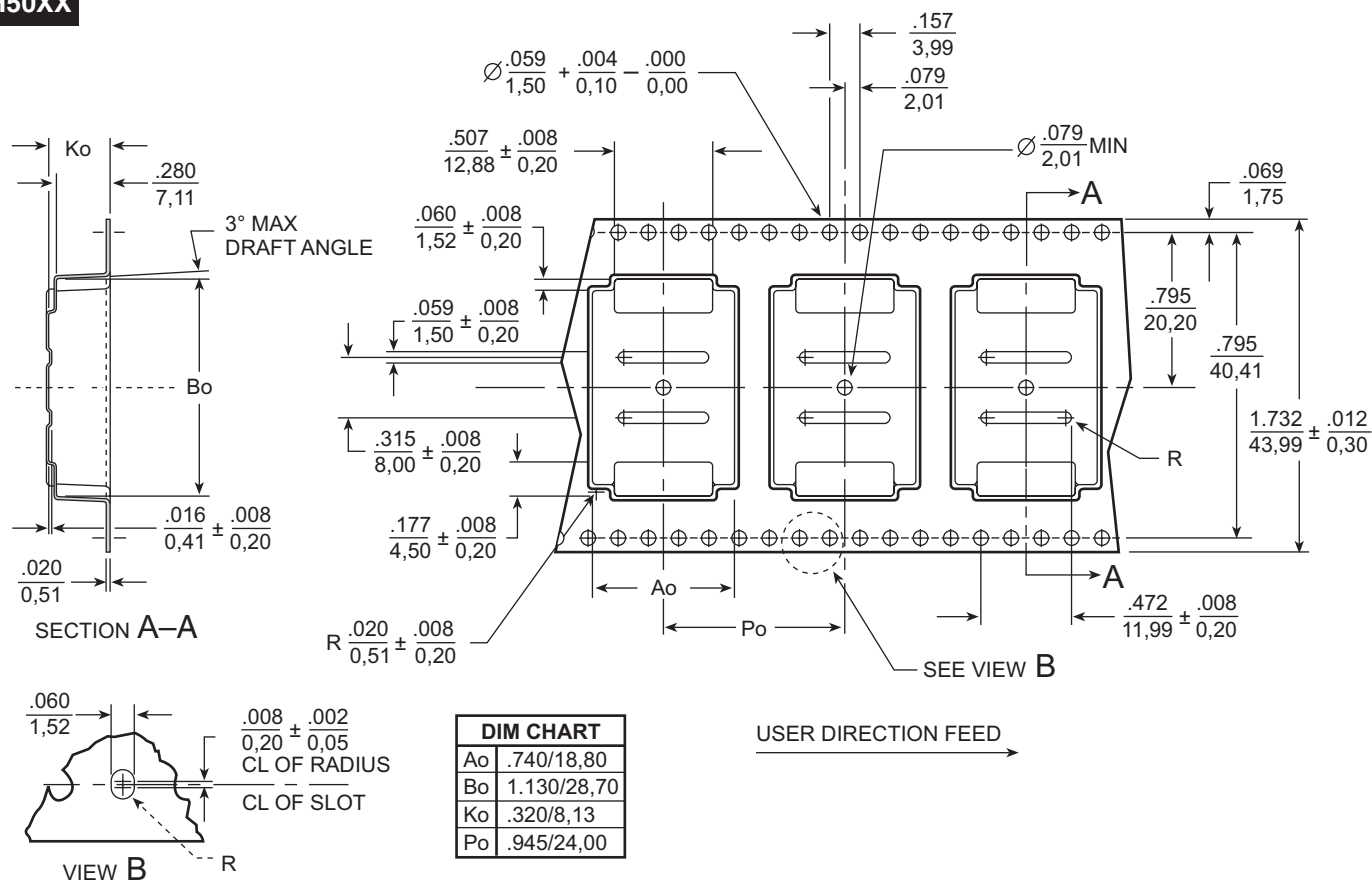
1000BASE-T DUAL PORT MAGNETIC MODULES

Designed to Support 1:1 Turns
Ratio Transceivers



Tape & Reel Specifications

H50XX



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