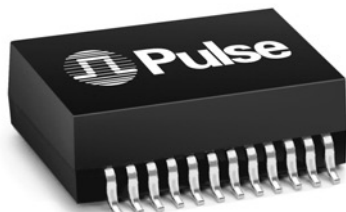


1000BASE-T MAGNETICS MODULES

Designed to Support 1:1
Turns Ratio Transceivers



NEW!



[Click here to view 10/100 Interchangeable Transformer \(H1267\) design.](#)

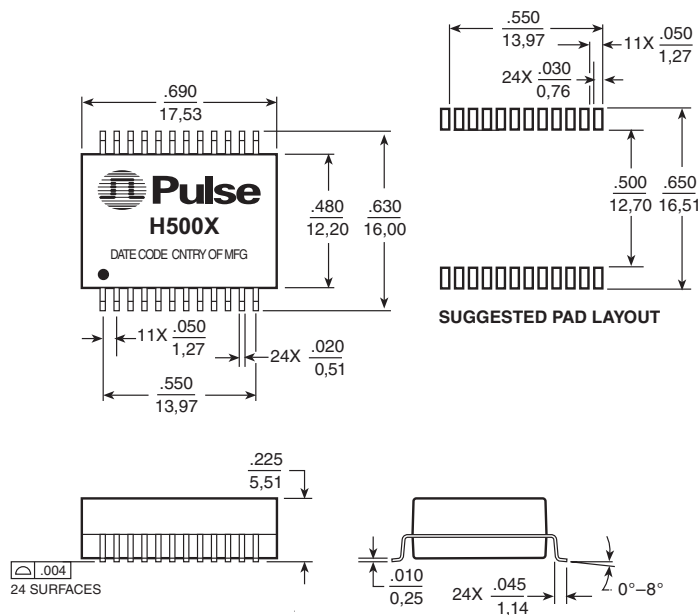
- Designed for long haul Gigabit Ethernet 10/100/1000Base-T, full duplex applications
- Supports 4 pairs of category 5 UTP cable
- Cable interface for isolation and low common mode emissions
- Compliant with IEEE 802.3ab standard for 1000Base-T

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

Part Number	Insertion Loss (dB MAX)	Return Loss (dB MIN @ 100Ω)						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		
H5004	1.0	-18	18	16	-12	-10	-43	-37	-33	-45	-40	-35	1500	
H5007	1.0	-18	18	16	-12	-10	-43	-37	-33	-45	-40	-35	1500	

Mechanical

H5004, H5007



Weight 2.7 grams
Tape & Reel 300/reel
Tube 25/tube

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

US 858 674 8100 • UK 44 1483 401 700 • France 33 3 84 35 04 04 • Singapore 65 287 8998 • Taiwan 886 2 2698 0228 • Hong Kong 852 2788 6588 • <http://www.pulseeng.com>

H500.C (11/02)

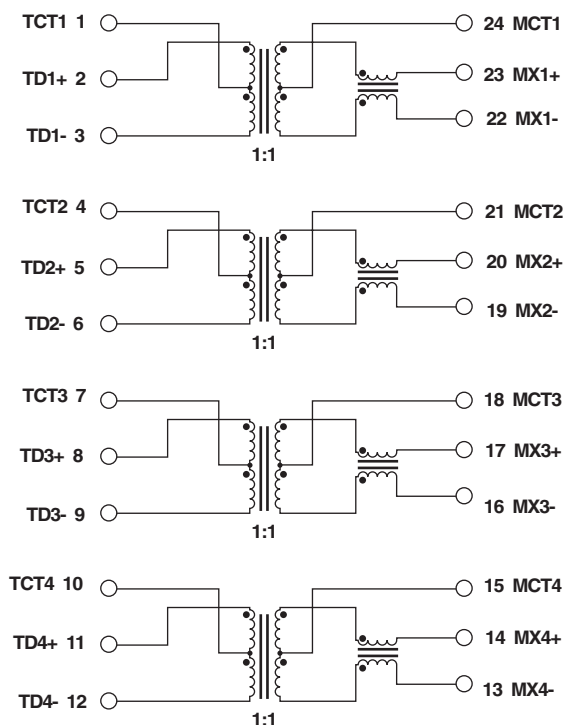
1000BASE-T MAGNETICS MODULES

Designed to Support 1:1 Turns Ratio Transceivers



Schematics

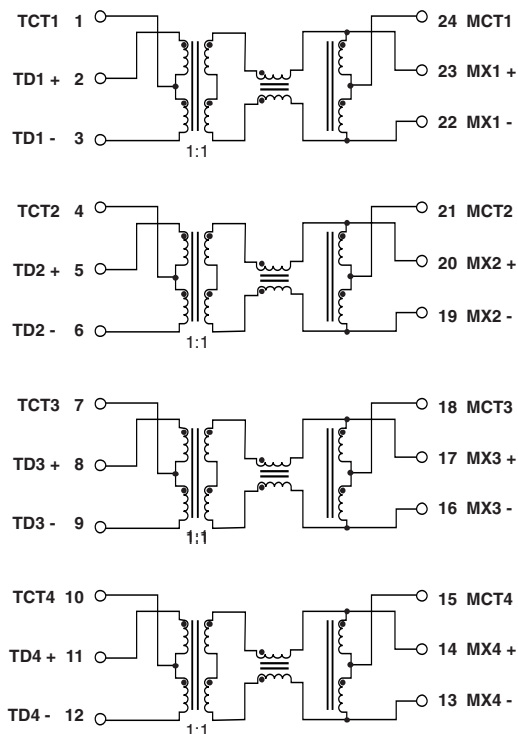
H5004



LEGEND



H5007



LEGEND



1000BASE-T MAGNETICS MODULES

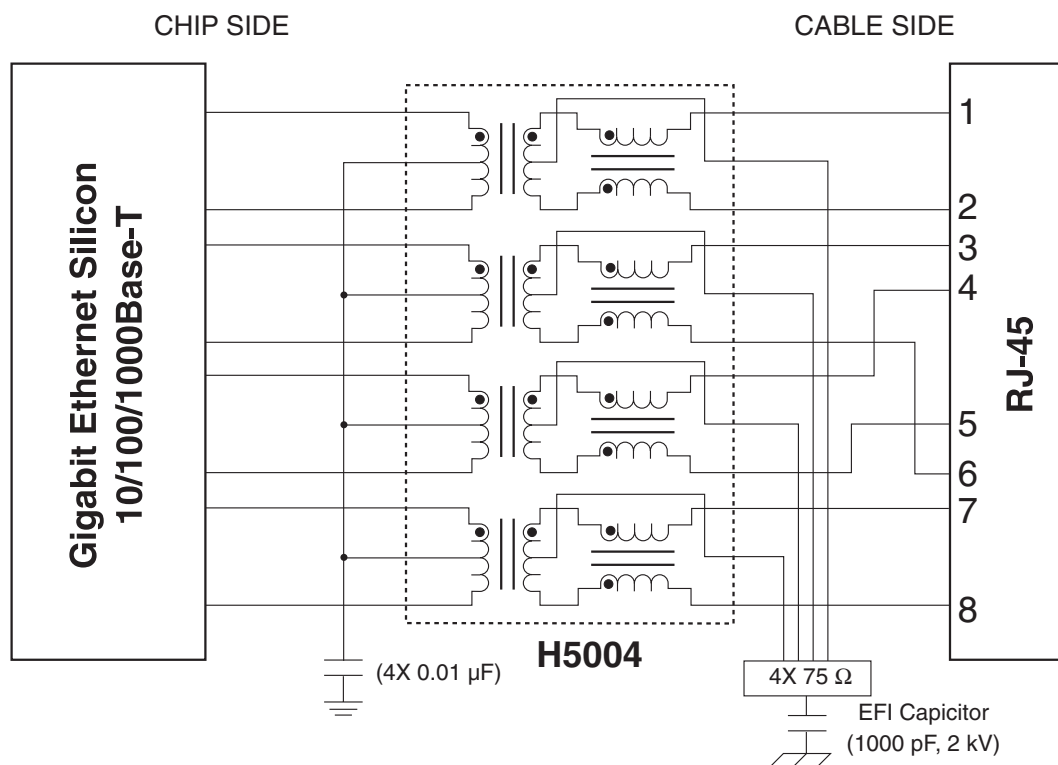
Designed to Support 1:1
Turns Ratio Transceivers



Application Circuit

H5004

Gigabit Circuit



The above circuit is a simple interface for a gigabit transformer connecting to both the Gigabit Ethernet silicon and the RJ-45 connector. It is highly recommended that the cable side Center Taps of each transformer be terminated to 75 Ω resistors and that the four center taps be terminated to an EFI capacitor prior to ground termination.

1000BASE-T MAGNETICS MODULES

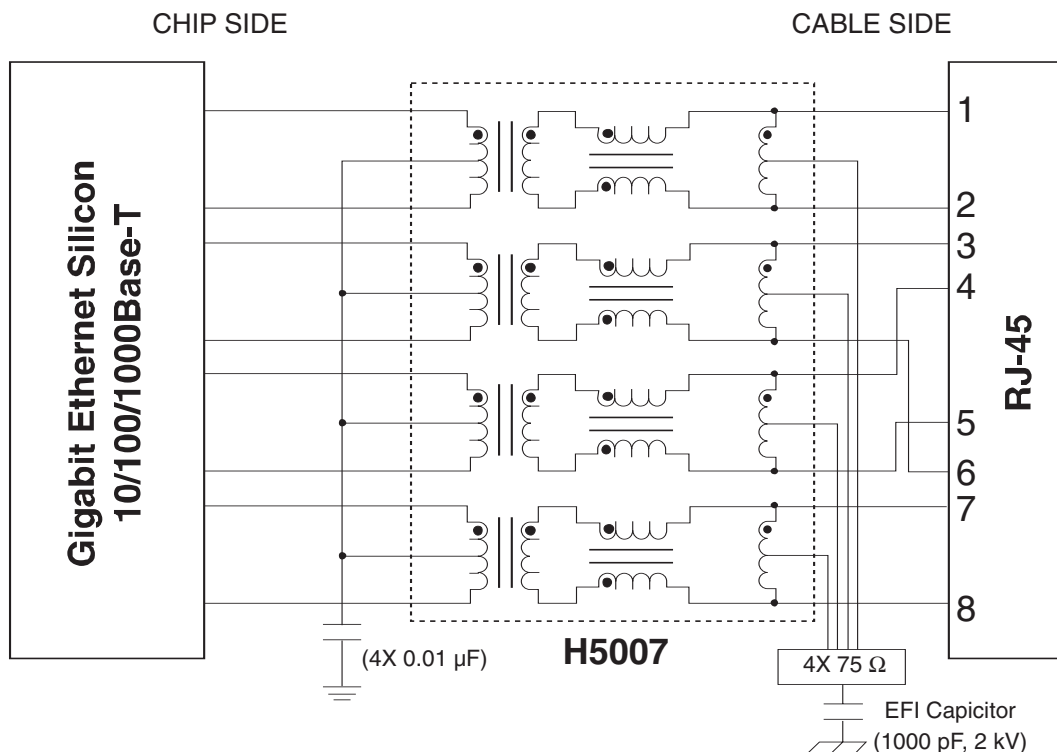
Designed to Support 1:1
Turns Ratio Transceivers



Application Circuit

H5007

Gigabit Circuit



The above circuit is a simple interface for a gigabit transformer connecting to both the Gigabit Ethernet silicon and the RJ-45 connector.

It is highly recommended that the cable side Center Taps of each transformer be terminated to 75 Ω resistors and that the four center taps be terminated to an EFI capacitor prior to ground termination.

For More Information :

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