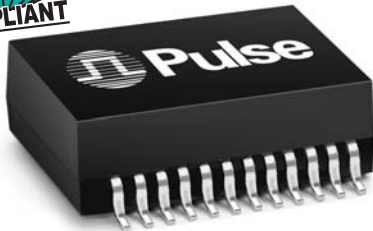






1000BASE-T MAGNETICS MODULES

Designed to Support Gigabit Transceivers



-  RoHS-5 peak reflow temperature rating 235°C
-  RoHS-6 peak reflow temperature rating 245°C
-  Magnetics, designed for Gigabit PHY used in backplane
-  Compliant with IEEE 802.3ab standard

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

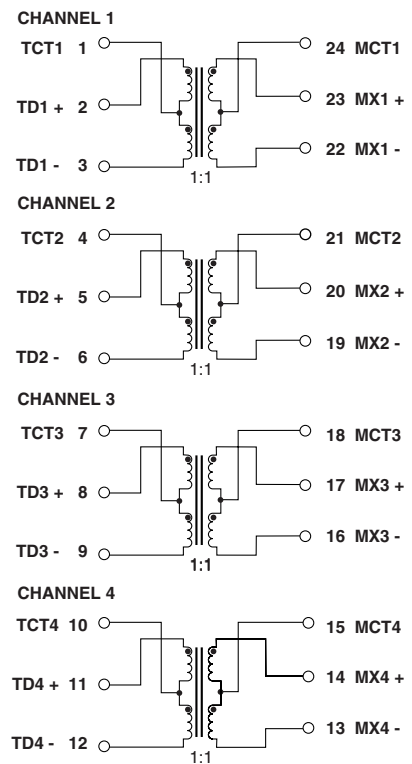
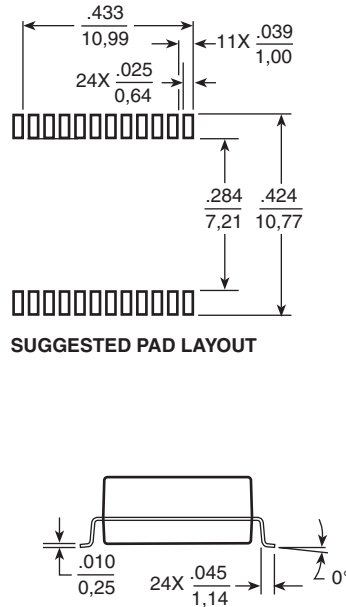
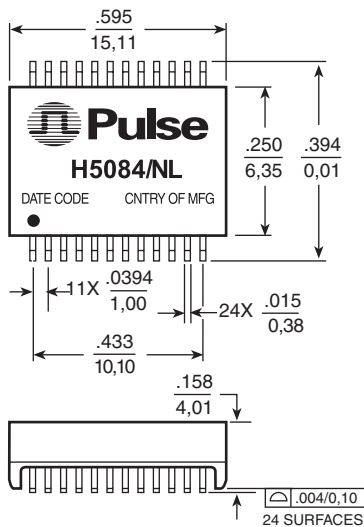
RoHS-5 ¹ Compliant Part Number	RoHS-6 ² Compliant Part Number	Insertion Loss (dB MAX)	Return Loss (dB MIN @ 100Ω)					Differential to Common Mode Rejection (dB MIN)			Crosstalk (dB MIN)			Hipot (Vrms MIN)
			1-100MHz	1-30MHz	40MHz	50MHz	60-80MHz	100MHz	30MHz	60MHz	100MHz	30MHz	60MHz	
H5084	H5084NL	1.0	-18	-18	-16	-12	-10	-43	-37	-33	-45	-40	-35	1500

- 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).

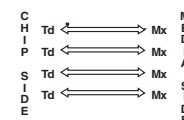
Mechanical

Schematic

H5084/NL



LEGEND



Weight 0.6 gram
Tube 33

Dimensions: $\frac{\text{Inches}}{\text{mm}}$ Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$

1000BASE-T MAGNETICS MODULES

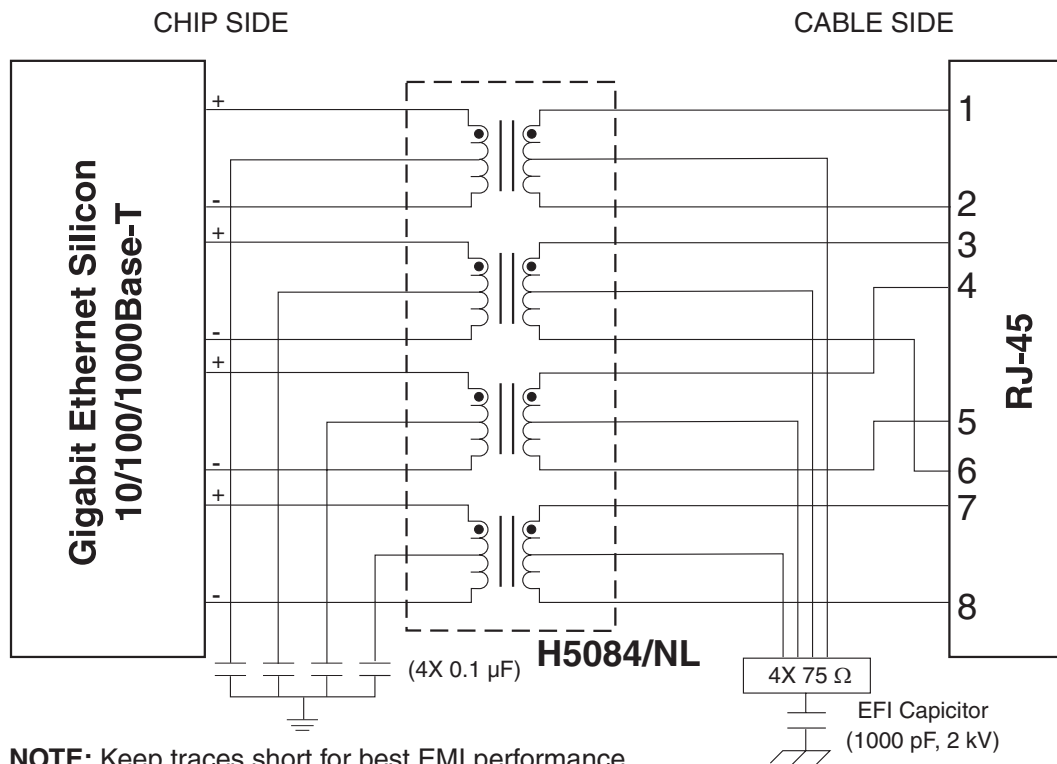
Designed to Support Gigabit Transceivers



Application Circuit

H5084/NL

Gigabit Circuit



NOTE: Keep traces short for best EMI performance.

The above circuit is a simple interface for a gigabit transformer connection 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:

Pulse Worldwide Headquarters

12220 World Trade Dr.
San Diego, CA 92128
U.S.A.
www.pulseeng.com
TEL: 858 674 8100
FAX: 858 674 8262

Pulse European Headquarters

Einsteinstrasse 1
71083 Herrenberg
Germany
TEL: 49 7032 7806 0
FAX: 49 7032 7806 12

Pulse China Headquarters

No. 1
Industrial District
Changan, Dongguan
China
TEL: 86 769 85538070
FAX: 86 769 85538870

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 4641811
FAX: 886 3 4641911

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, 2006. Pulse Engineering, Inc. All rights reserved.