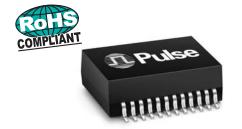
# 1000BASE-T MAGNETICS MODULES



## **Designed to Support Gigabit Transceivers**



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

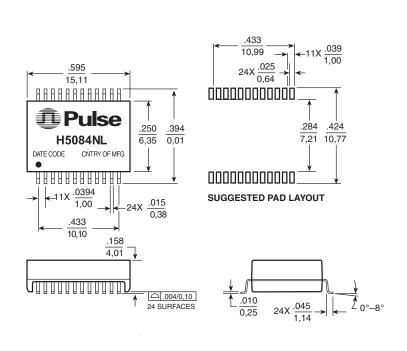
Electrical Specifications @ $25^{\circ}\mathrm{C}$ — Operating Temperature $0^{\circ}\mathrm{C}$ to $70^{\circ}\mathrm{C}$													
RoHS-6 <sup>1</sup> Compliant Part Number	Insertion Loss (dB MAX)	Return Loss (dB MIN @ 100 W)					Differential to Common Mode Rejection (dB MIN)		Crosstalk (dB MIN)			<b>Hipot</b> (Vrms MIN)	
	1-100MHz	1-30MHz	40MHz	50MHz	60-80MHz	100MHz	30MHz	60MHz	100MHz	30MHz	60MHz	100MHz	
H5084NL <sup>2</sup>	1.0	-18	-18	-16	-12	-10	-43	-37	-33	-45	-40	-35	1500

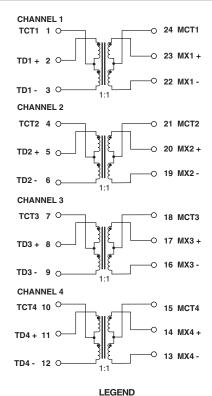
<sup>1.</sup> RoHS-6: Product does not contain 5 out of the 6 banned substances specified in the RoHS directive. Some internal connections may contain lead in high-temperture solder (solder alloys containing more than 85% lead).

H5084NL

## Mechanical

## **Schematic**





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

<sup>2.</sup> MSL = Moisture Sensitivity Level = 1

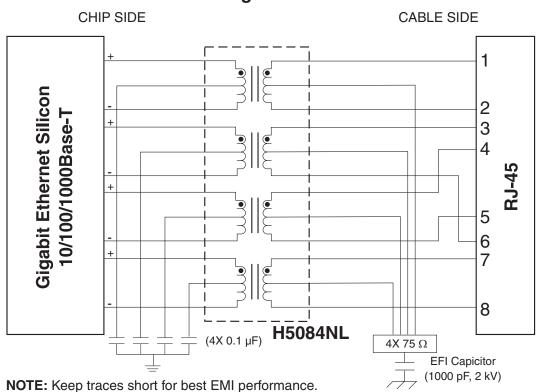
# 1000BASE-T MAGNETICS MODULES Designed to Support Gigabit Transceivers



## **Application Circuit**

## H5084NL

## **Gigabit Circuit**



The above circuit is a simple interface for a gigabit transformer connectiong 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 W resistors and that the four center taps be terminated to an EFI capacitor prior to ground termination.

#### **For More Information:**

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