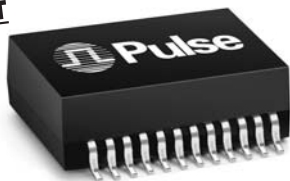


1000BASE-T MAGNETICS MODULES

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°C — Operating Temperature 0°C to 70°C

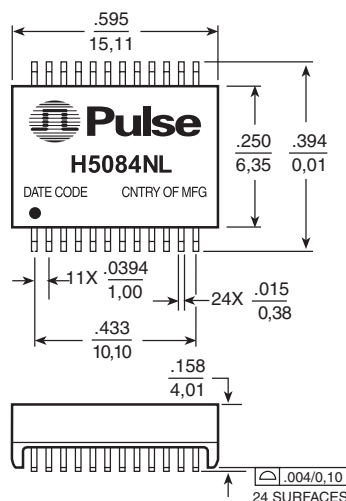
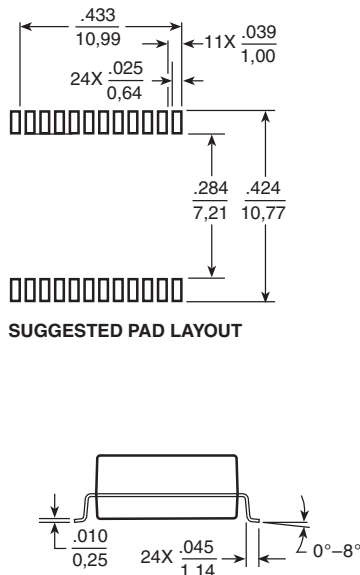
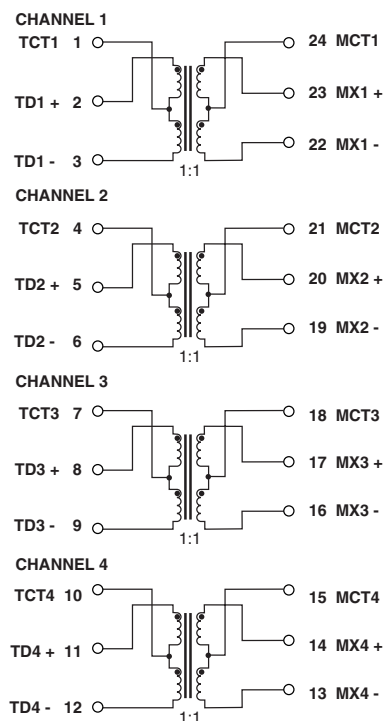
RoHS-6 ¹ Compliant Part Number	Insertion Loss (dB MAX)	Return Loss (dB MIN @ 100 W)					Differential to Common Mode Rejection (dB MIN)			Crosstalk (dB MIN)			Hipot (Vrms MIN)
	1-100MHz	1-30MHz	40MHz	50MHz	60-80MHz	100MHz	30MHz	60MHz	100MHz	30MHz	60MHz	100MHz	
H5084NL ²	1.0	-18	-18	-16	-12	-10	-43	-37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

- 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).
- MSL =** Moisture Sensitivity Level = 1

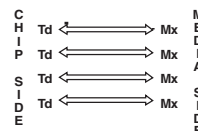
Mechanical

Schematic

H5084NL



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

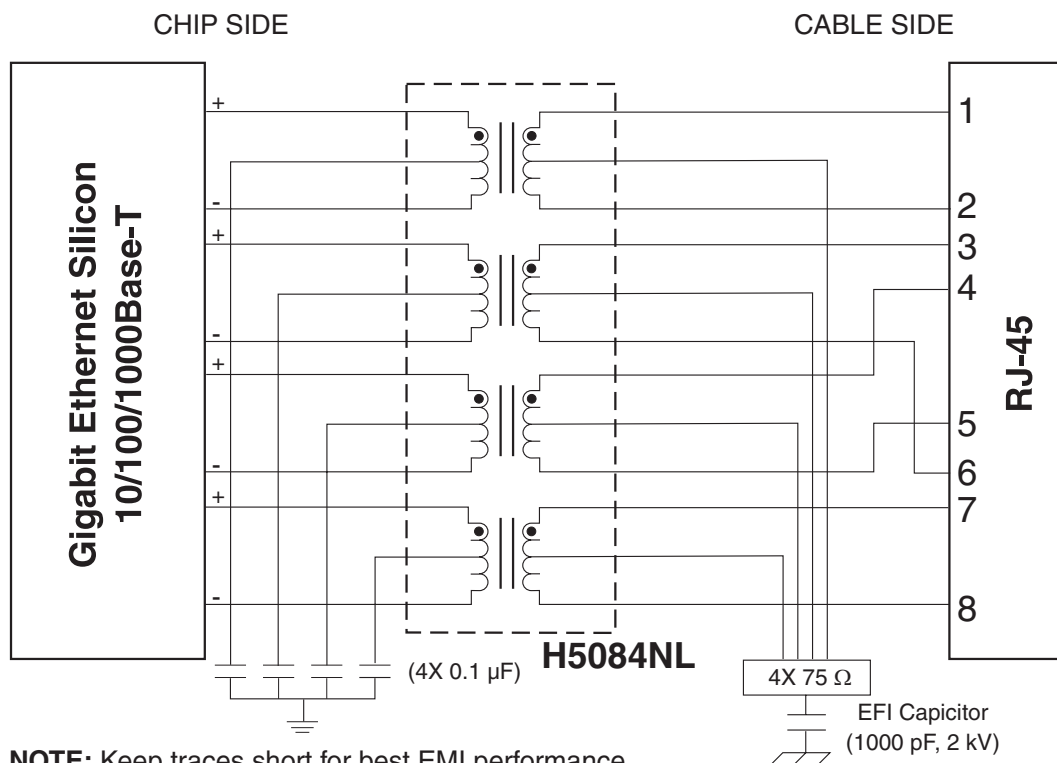
Designed to Support Gigabit Transceivers



Application Circuit

H5084NL

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.

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