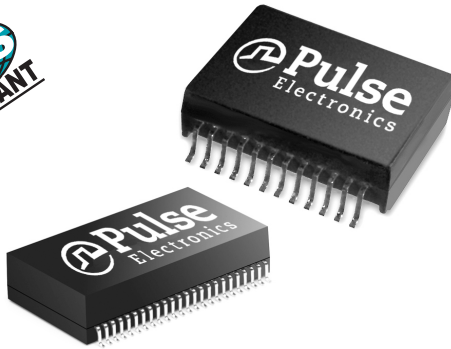
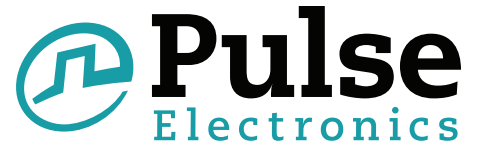


1000BASE-T MAGNETICS MODULE

Designed to Support 1:1 Turns Ratio Transceivers



- RoHS peak reflow temperature rating 245°C
- Meets IEEE 802.3 specification

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

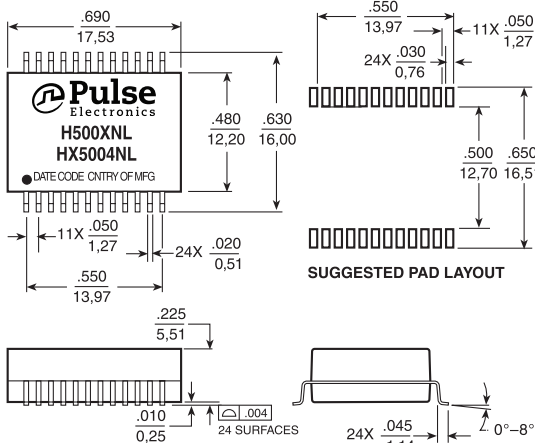
RoHS Compliant Part Number	Number of Ports	Insertion Loss (dB MAX)	Return Loss (dB MIN)					Differential to Common Mode Rejection (dB MIN)			Crosstalk (dB MIN)			Hipot (Vrms)
			1-100 MHz	1-30 MHz	40 MHz	50 MHz	60-80 MHz	100 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	
H5004NL 3d	1	1	-18	-18	-16	-12	-10	-43	-37	-33	-43	-37	-33	1500
HX5004NL 1, 3d	1	1	-18	-18	-16	-12	-10	-43	-37	-33	-43	-37	-33	1500
H5007NL 3d	1	1	-18	-18	-16	-12	-10	-43	-37	-33	-43	-37	-33	1500
H5008NL 3a, 4	1	1	-18	-18	-16	-12	-10	-43	-37	-33	-43	-37	-33	1500
HX5008NL 1, 3a, 4	1	1	-18	-18	-16	-12	-10	-43	-37	-33	-43	-37	-33	1500
H5009NL 3a, 4	1	1	-18	-18	-16	-12	-10	-43	-37	-33	-43	-37	-33	1500
H5012NL 3a, 4	2	1.4	-18	-16	-14.4	-12	-10	-45	-40	-35	-43.5	-37.5	-33	1500
H5014NL 3a, 4	2	1.4	-18	-16	-14.4	-12	-10	-45	-40	-35	-43.5	-37.5	-33	1500
HX5014NL 1, 3a, 4	2	1.4	-18	-16	-14.4	-12	-10	-45	-40	-35	-43.5	-37.5	-33	1500
H5015NL 3a, 4	1	1	-18	-18	-16	-12	-10	-43	-37	-33	-43	-37	-33	1500
H5020NL 3a, 4	2	1	-18	-16	-14.4	-12	-10	-40	-35	-30	-40	-33	-28	1500
HX5020NL 1, 3a, 4	2	1.4	-18	-16	-14.4	-12	-10	-40	-35	-30	-40	-33	-28	1500
H5089NL 3a, 4	2	1.4	-18	-16	-14.4	-12	-10	-45	-40	-35	-43.5	-37.5	-33	1500

- HX = extended temperature version -40°C to +85°C
- For Tape & Reel packaging, add a "T" suffix at the end of the part number, e.g. H5007NLT.
- MSL = Moisture Sensitivity Level: a = 1, b = 2, c = 3, d = 4
- Not for sale in the U.S.

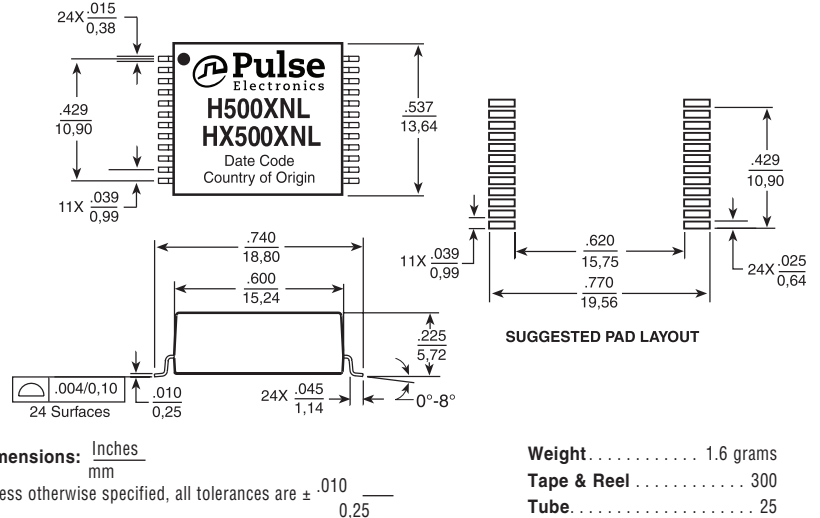
Mechanicals

H5004NL, HX5004NL*, H5007NL*

H5004NL, H5007NL, and HX5004NL are footprint-compatible to 10/100BASE-TX part H1267.

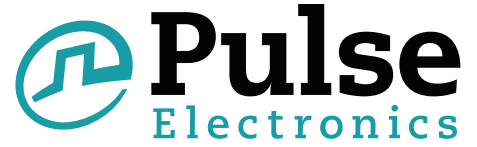


H5008NL, H5009NL, HX5008NL, H5089NL



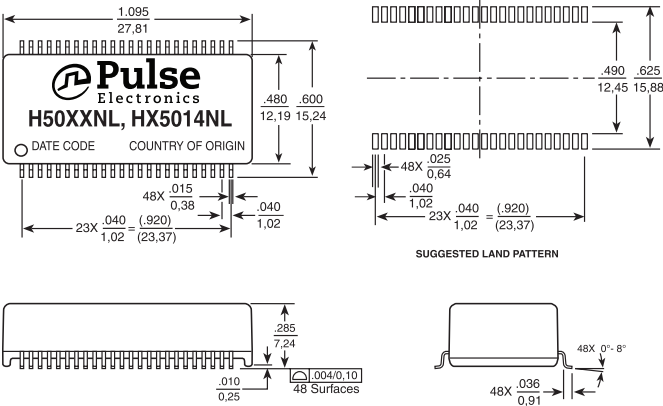
1000BASE-T MAGNETICS MODULE

Designed to Support 1:1 Turns Ratio Transceivers



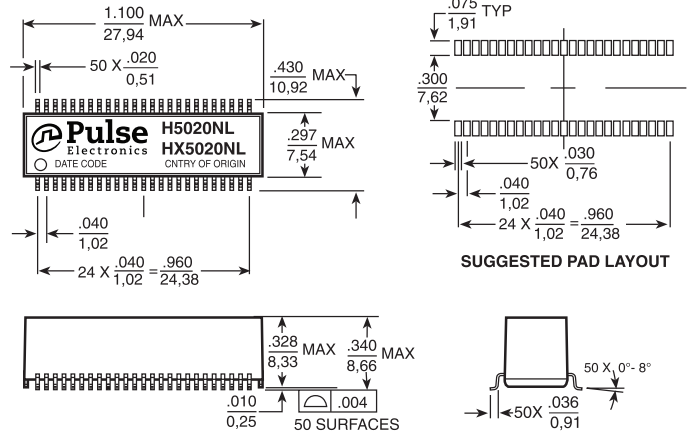
Mechanicals (continued)

H5012NL, H5014NL, HX5014NL, H5089NL



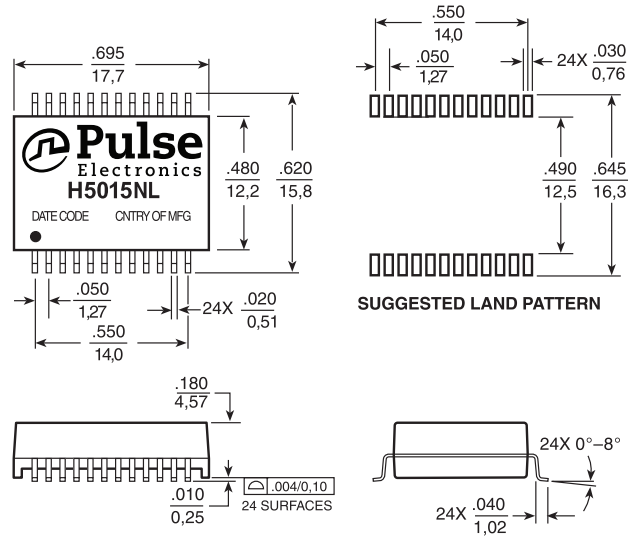
Weight 4.0 grams
Tape & Reel 250/reel
Tube 15/tube

H5020NL, HX5020NL



Weight 1.6 grams
Tape & Reel 250/reel
Tube 15/tube

H5015NL

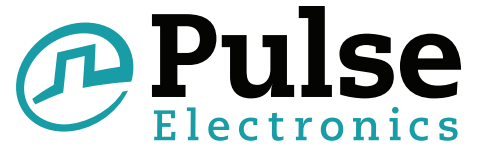


Weight 1.5 grams
Tape & Reel 400/reel

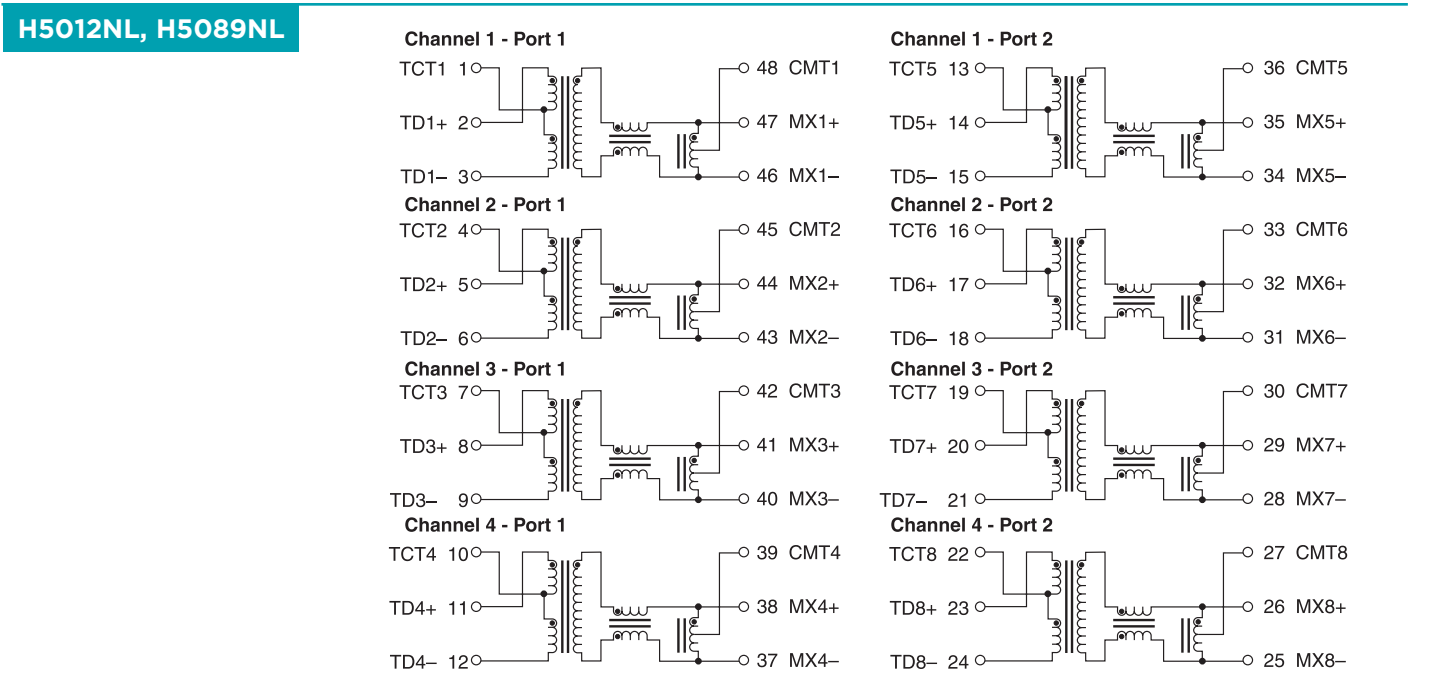
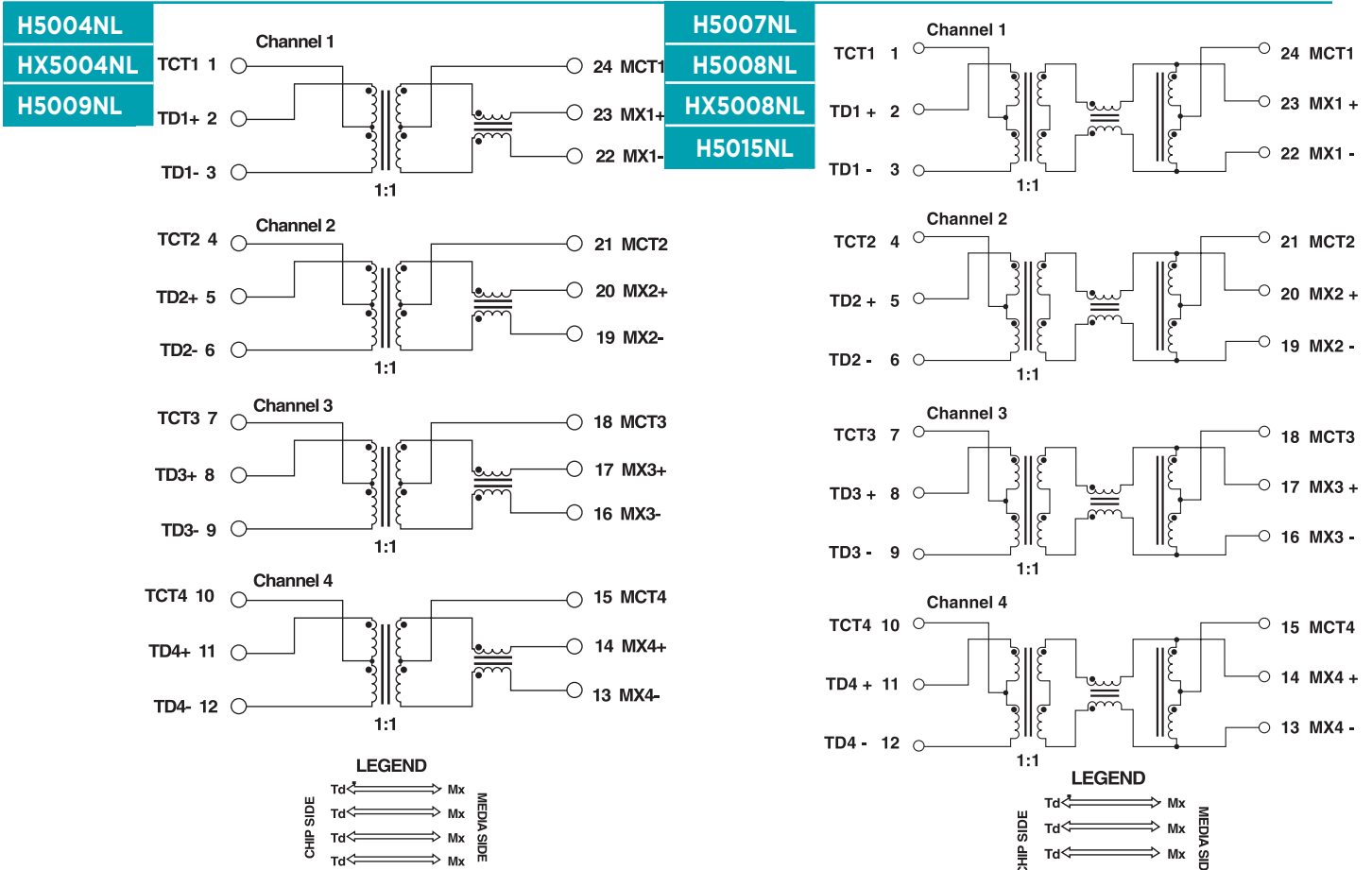
Dimensions: Inches _____
mm _____
Unless otherwise specified, all tolerances are ± .005
0,13

1000BASE-T MAGNETICS MODULE

Designed to Support 1:1 Turns Ratio Transceivers



Schematics



1000BASE-T MAGNETICS MODULE

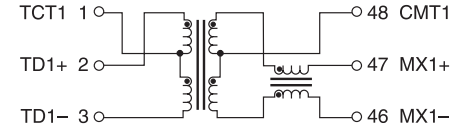
Designed to Support 1:1 Turns Ratio Transceivers



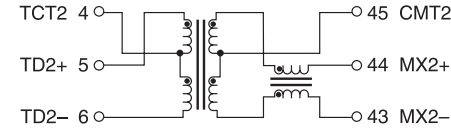
Schematics (continued)

H5014NL, HX5014NL

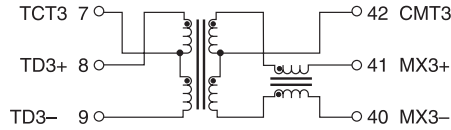
Channel 1 - Port 1



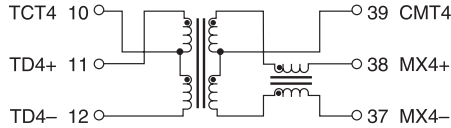
Channel 2 - Port 1



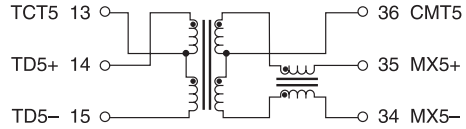
Channel 3 - Port 1



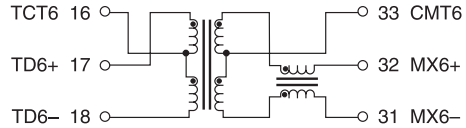
Channel 4 - Port 1



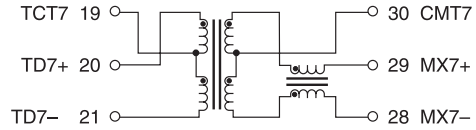
Channel 1 - Port 2



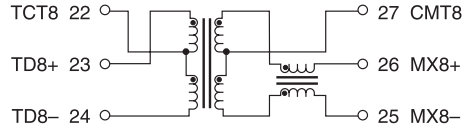
Channel 2 - Port 2



Channel 3 - Port 2

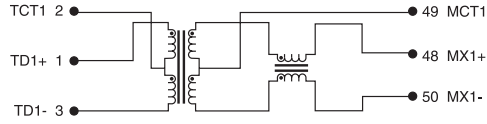


Channel 4 - Port 2

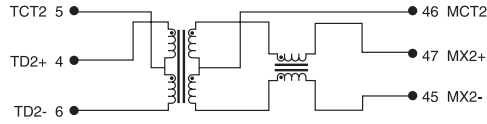


H5020NL, HX5020NL

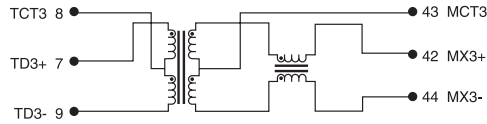
Channel 1 - Port 1



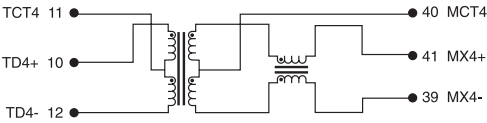
Channel 2 - Port 1



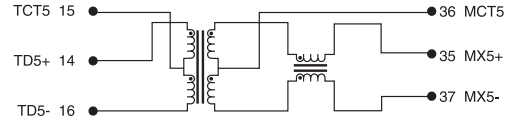
Channel 3 - Port 1



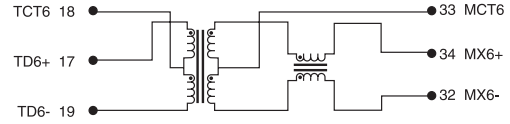
Channel 4 - Port 1



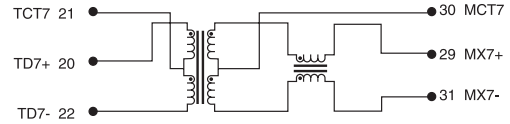
Channel 1 - Port 2



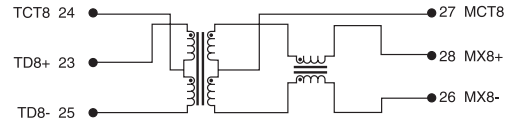
Channel 2 - Port 2



Channel 3 - Port 2



Channel 4 - Port 2



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