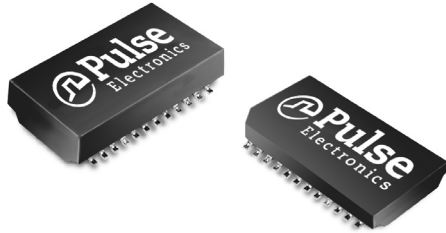


1000Base-T, Single Port Magnetics Modules

Set-top Boxes, Routers, and SOHOs



- RoHS peak reflow temperature rating 245°C
- Small footprint saves board space
- 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 @ 100 Ω)				Differential to Common Mode Rejection (dB MIN)			Crosstalk (dB MIN)			Hipot (Vrms MIN)
		1-100 MHz	1-30 MHz	40-50 MHz	60-80 MHz	100 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	
H5138NL ²	-1.0	-18	-16	-12	-10	-43	-37	-33	-45	-40	-35	1500
H5149NL ²	-1.0	-18	-16	-12	-10	-43	-37	-33	-45	-40	-35	1500
HX5149NL ^{2,3}	-1.0	-16	-14.4	-12	-10	-43	-37	-33	-45	-40	-35	1500

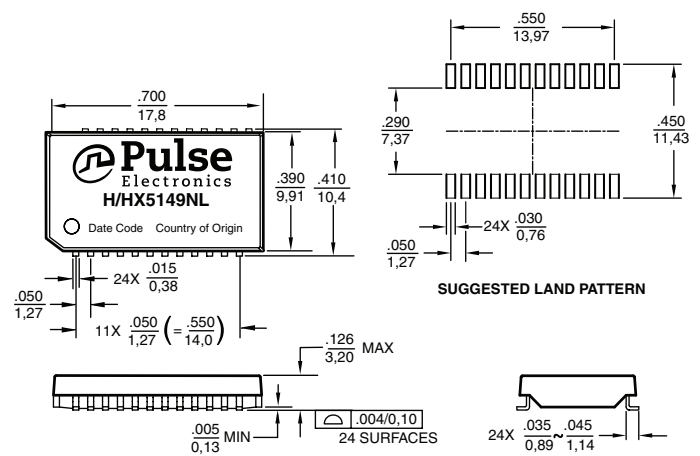
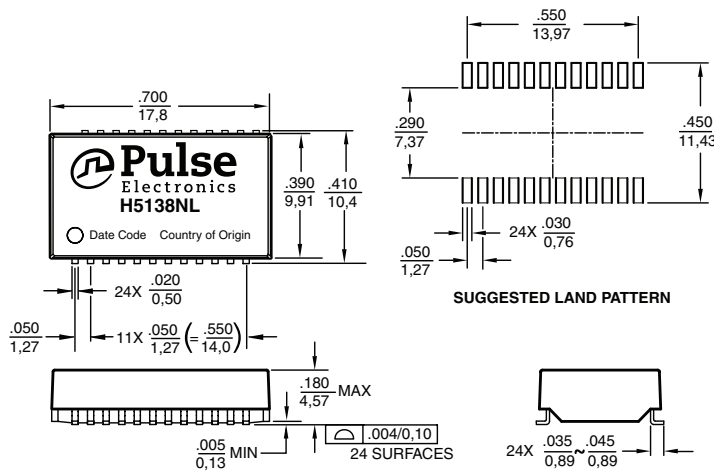
Notes:

- Add the suffix "T" to the end of the part number for Tape & Reel option, e.g. H5138NL becomes H5138NL^T.
- MSL = Moisture Sensitivity Level = 1
- Extended operating temperature (-40°C to +85°C)

Mechanicals

H5138NL

H5149NL, HX5149NL



Weight0.4 grams
Tape & Reel400
Tube25

Dimensions: Inches mm Unless otherwise specified, all tolerances are ± .010 / 0,25

Weight0.4 grams
Tape & Reel400
Tube25

USA 858 674 8100

Germany 49 7032 7806 0

Singapore 65 6287 8998

Shanghai 86 21 62787060

China 86 755 33966678

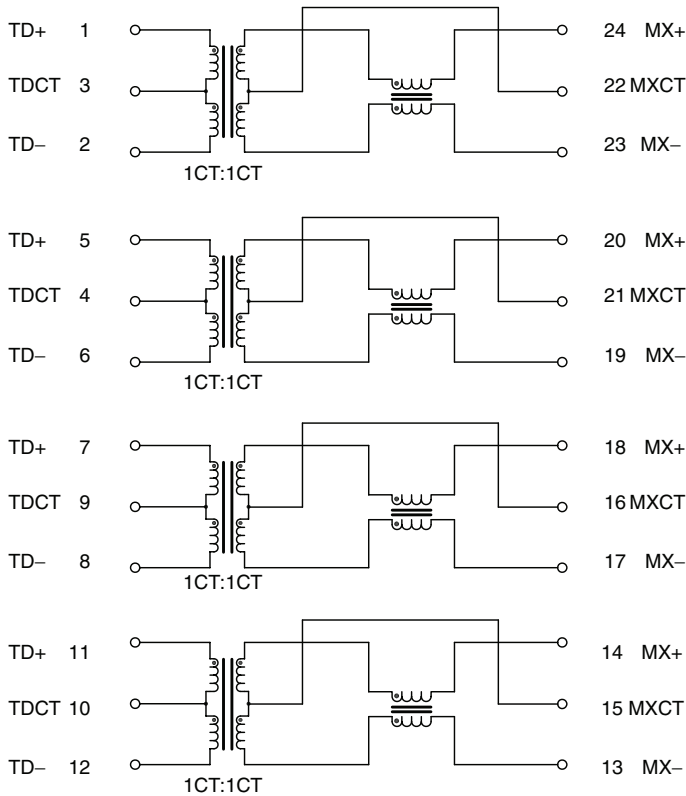
Taiwan 886 3 4356768

1000Base-T, Single Port Magnetics Modules

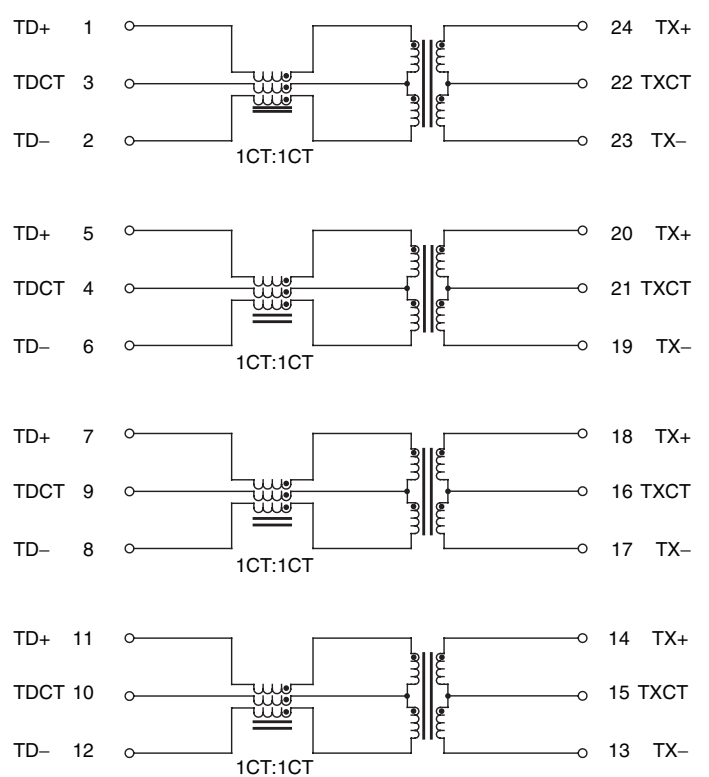
Set-top Boxes, Routers, and SOHOs

Schematics

H5138NL



H5149NL, HX5149NL



For More Information

Pulse Worldwide Headquarters
12220 World Trade Drive
San Diego, CA
92128
U.S.A.

Tel: 858 674 8100

Pulse Europe
Einsteinstrasse 1
D-71083 Herrenberg
Germany

Tel: 49 7032 7806

Pulse China Headquarters
B402, Shenzhen Academy of
Aerospace Technology Bldg.
10th Kejinan Road
High-Tech Zone
Nanshan District
Shenzhen, PR China
518057

Pulse North China
Room 2704/2705
Super Ocean Finance
Ctr.
2067 Yan An Road
West
Shanghai 200336
China

Pulse South Asia
135 Joo Seng Road
#03-02
PM Industrial Bldg.
Singapore 368363

Tel: 65 6287 8998
Fax: 65 6287 8998

Pulse North Asia
3F, No. 198
Zhongyuan Road
Zhongli City
Taoyuan County 320
Taiwan R. O. C.
Tel: 886 3 4356768
Fax: 886 3 4356823
(Pulse)

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, 2011. Pulse Electronics, Inc. All rights reserved.