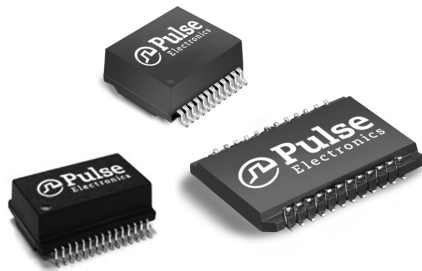


10GBase-T Magnetics Modules

Designed to Support 10GBase-T
Transceivers



- Compliant with IEEE 802.3 standard
- Qualified with top 10Gig PHY Manufacturer
- RoHS peak reflow temperature rating: 245°C
- Low profile package for PCI Express
- Fine-tune magnetics to specific PHY vendors

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

RoHS Compliant Part Number	Channel Option	Insertion Loss (dB or better)		Return Loss (dB or better)		Common to Differential Mode Rejection (dB or better)		Crosstalk (dB or better)		Hipot (Vrms MIN)	MSL
		100 kHz	1-500 MHz	1-40 MHz	40-500 MHz	1-250 MHz	250-500 MHz	1-100 MHz	100-500 MHz		
H7019NL	4	-3.0	-1.0 (-0.6 dB TYP)	-18	-17+ 10* LOG (f/40)	-30	-22	-40	-30	1500	1
H7028NL	4	-3.0	-1.0 (-0.6 dB TYP)	-18	-17+ 10* LOG (f/40)	-30	-22	-40	-30	1500	1
H7029NL	4	-3.0	-1.0 (-0.6 dB TYP)	-18	-17+ 10* LOG (f/40)	-30	-22	-40	-30	1500	1
HX7028NL ¹	4	-3.0	-1.0 (-0.6 dB TYP)	-18	-17+ 10* LOG (f/40)	-30	-22	-40	-30	1500	1
H7800NL	4	-3.0	-1.0 (-0.6 dB TYP)	-18	-17+ 10* LOG (f/40)	-30	-22	-40	-30	1500	1
H7037NL	5	-3.0	-1.0 (-0.6 dB TYP)	-23	-23+ 10* LOG (f/40)	-40	-25	-40	-25	1500	1
H7137NL	5	-3.0	-1.0 (-0.6 dB TYP)	-23	-23+ 10* LOG (f/40)	-40	-25	-40	-25	1500	1

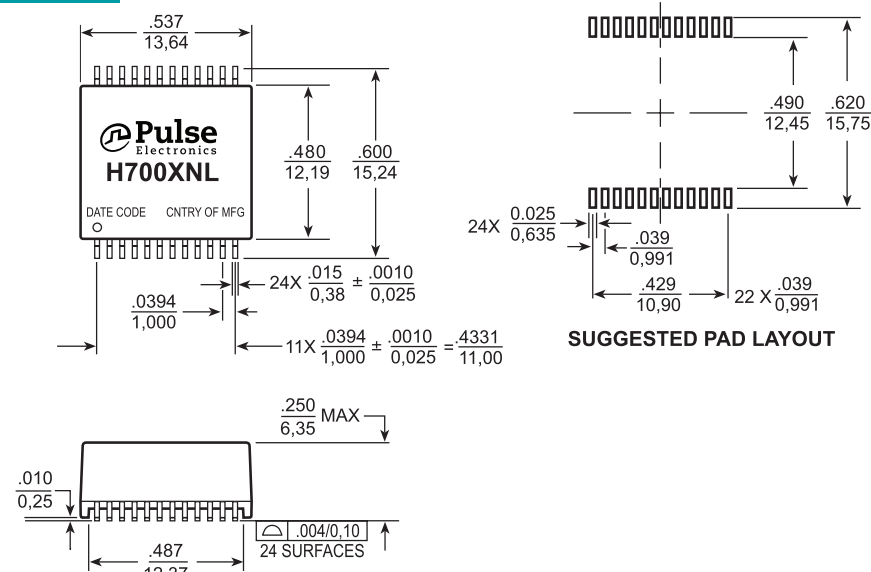
Notes:

1. Extended Operating temperature (-40°C to +85°C)

Note: When ordering Tape & Reel packaging, add a "T" suffix at the end of the part number, e.g. H7137NLT.

Mechanical

H7019NL, H7028NL, H7029NL, HX7028NL



Weight1.2 grams
Tube35

Dimensions: $\frac{\text{Inches}}{\text{mm}}$ Unless otherwise specified, all tolerances are $\pm \frac{.010}{.025}$

USA 858 674 8100

Germany 49 7032 7806 0

Singapore 65 6287 8998

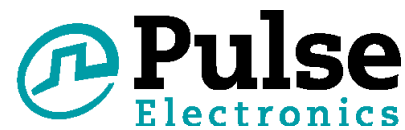
Shanghai 86 21 62787060

China 86 755 33966678

Taiwan 886 3 4356768

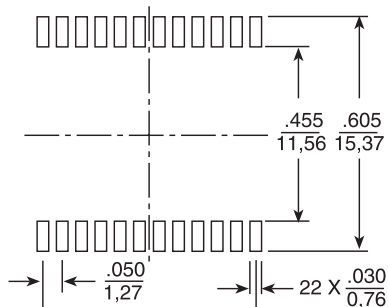
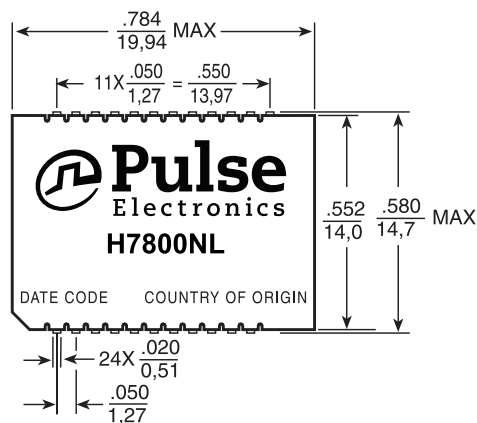
10GBase-T Magnetics Modules

Designed to Support 10GBase-T
Transceivers



Mechanicals

H7800NL



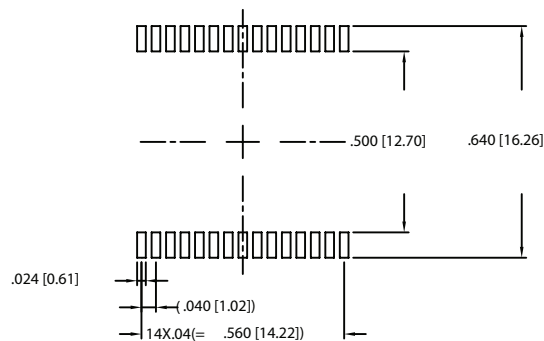
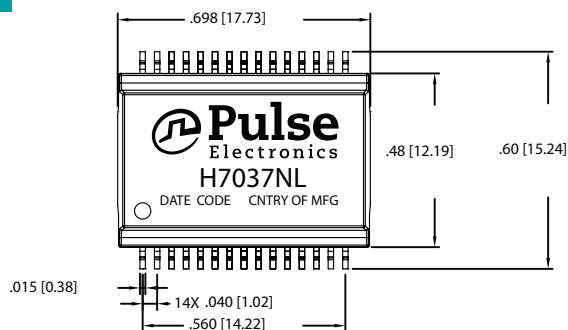
SUGGESTED LAND PATTERN



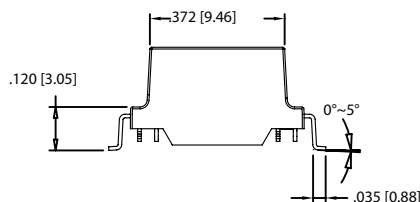
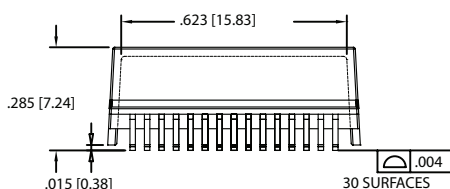
Weight1.0 grams
 Tape & Reel700
 Tube20

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

H7037NL, H7137NL



SUGGESTED LAND PATTERN



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

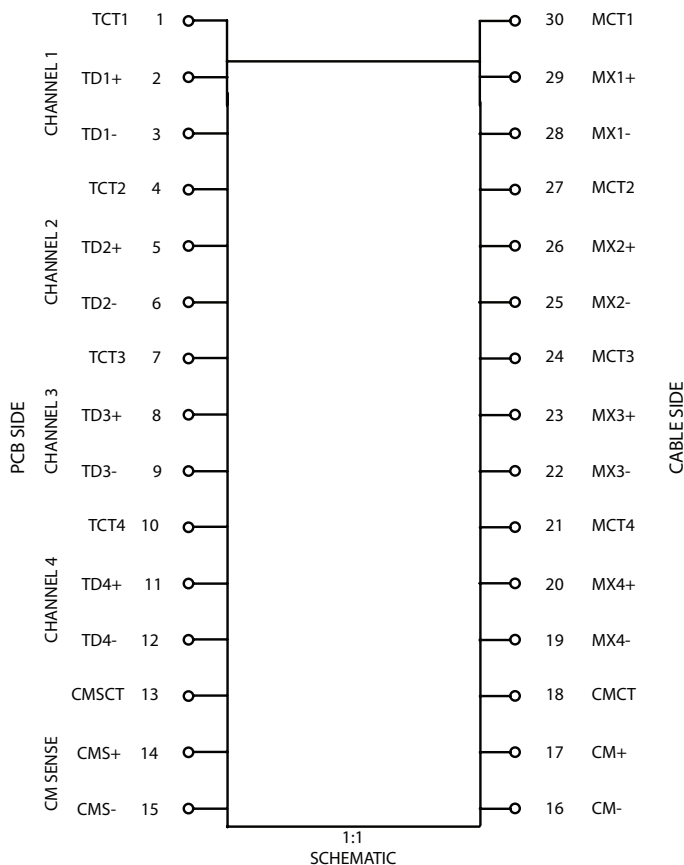
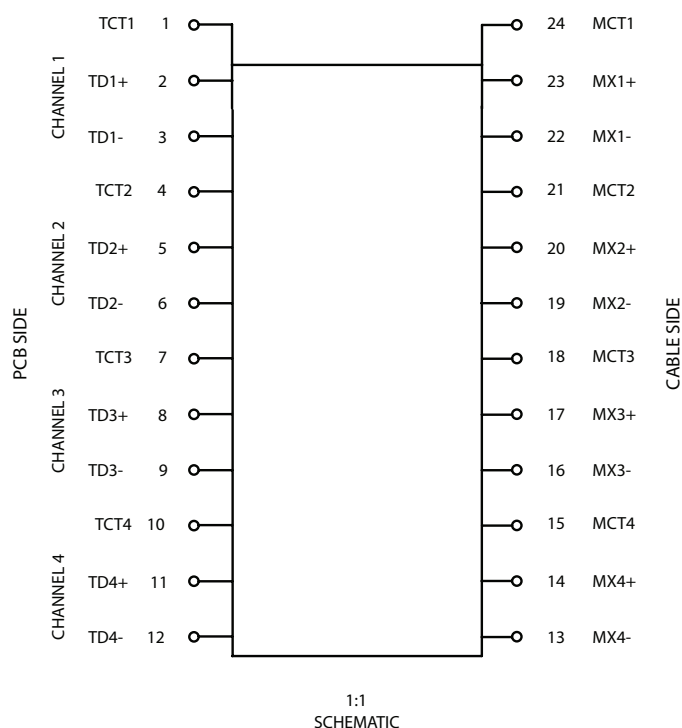
10GBase-T Magnetics Modules

Designed to Support 10GBase-T
Transceivers

Schematics

H7019NL, H7028NL, H7029NL, HX7028NL

H7037NL, H7137NL



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 Herren-
berg
Germany

Tel: 49 7032 7806

Pulse China Headquarters
B402, Shenzhen Academy of
Aerospace Technol-
ogy 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)

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