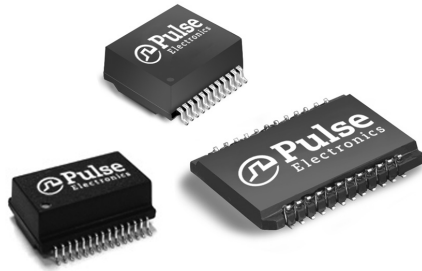


# 10GBase-T Magnetics Modules

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 <sup>1</sup>	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

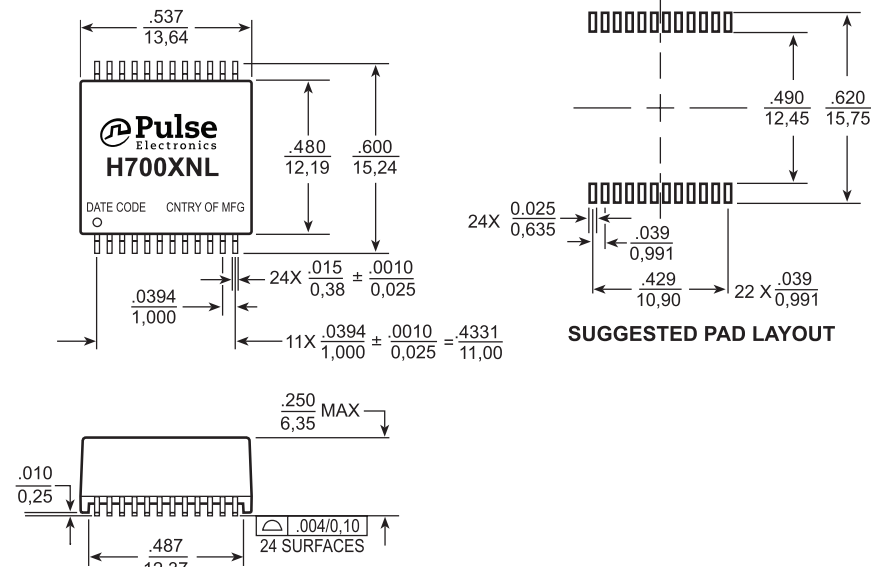
### Notes:

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



Weight .....1.2 grams  
Tube .....35

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

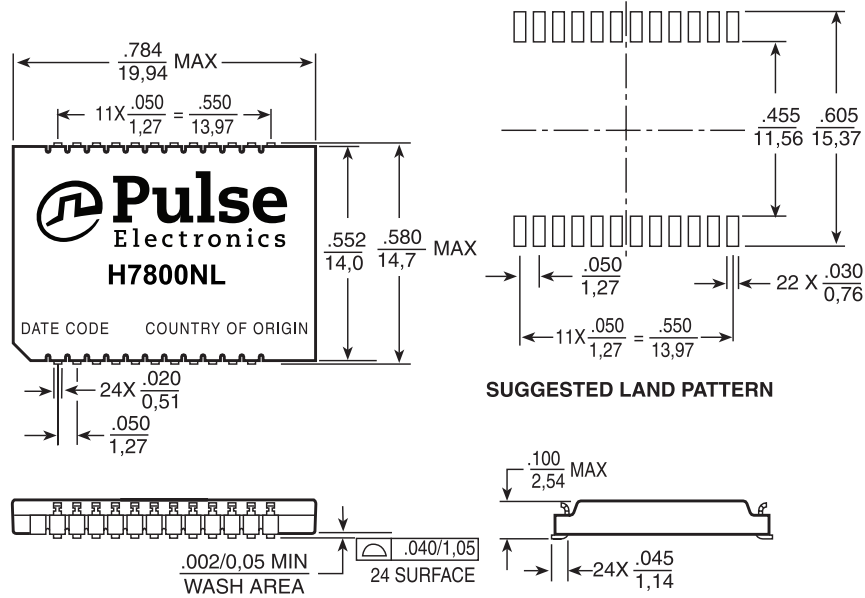
# 10GBase-T Magnetics Modules

Designed to Support 10GBase-T  
Transceivers



## Mechanicals

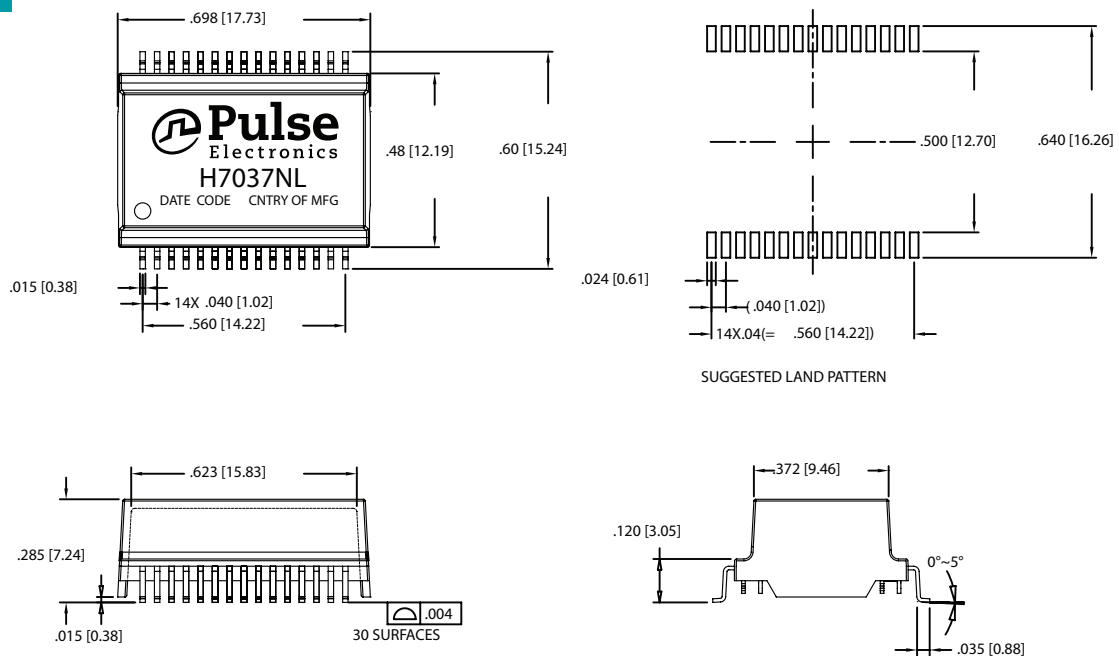
### H7800NL



Weight .....1.0 grams  
 Tape & Reel .....700  
 Tube .....20

Dimensions:  $\frac{\text{Inches}}{\text{mm}}$  Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0,25}$

### H7037NL, H7137NL



Dimensions:  $\frac{\text{Inches}}{\text{mm}}$  Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0,25}$

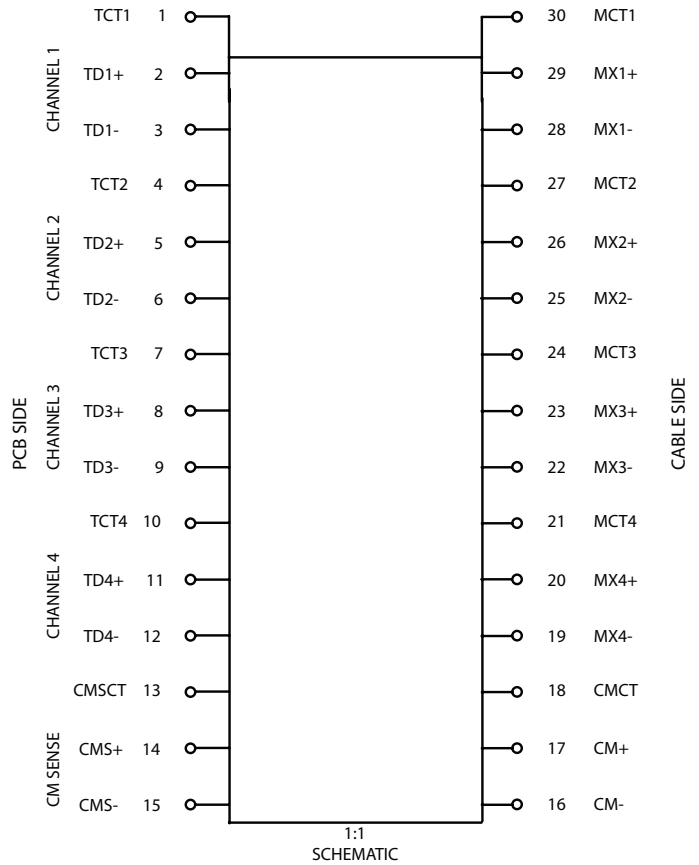
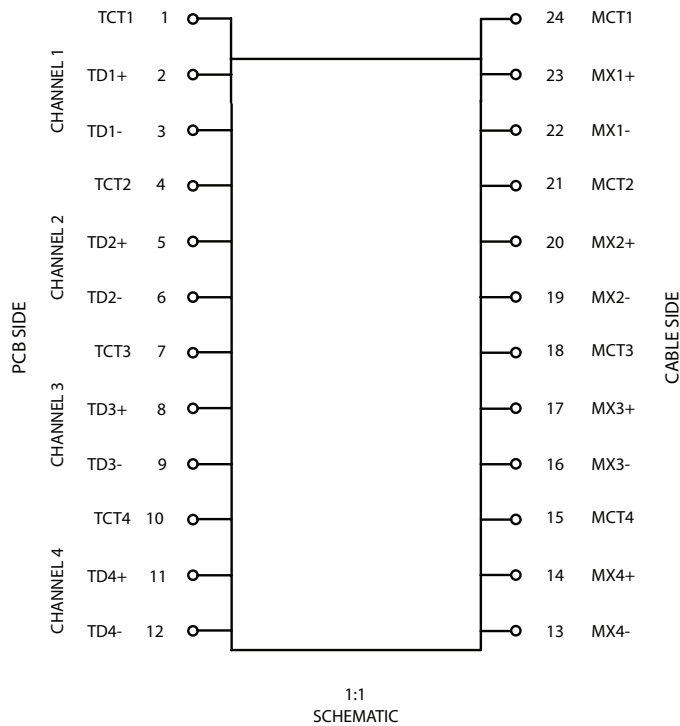
# 10GBase-T Magnetics Modules

Designed to Support 10GBase-T  
Transceivers

## Schematics

H7019NL, H7028NL, H7029NL, HX7028NL

H7037NL, H7137NL



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