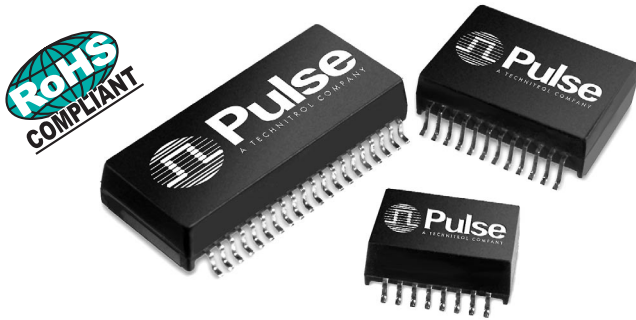


# Star Magnetics™ Gigabit Transformer Modules with PoE\* Option

\*Power over Ethernet



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

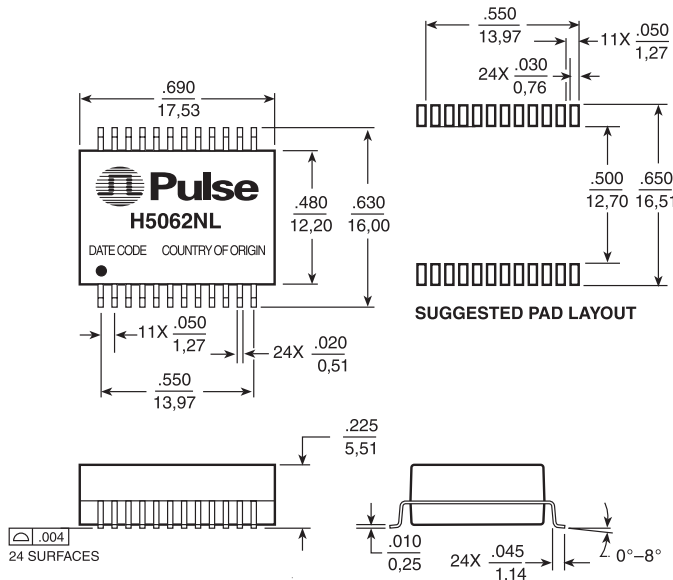
## Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

RoHS Compliant Part Number	PoE	Turns Ratio		Number of Ports	Insertion Loss (dB MAX)			Return Loss (Zout = 100 Ω ±15%)				Crosstalk (adjacent channels dB MIN)			Hipot (Vrms MIN)
		Tx	Rx		0.1 MHz	100 MHz	125 MHz	30 MHz	60 MHz	80 MHz	100 MHz	30 MHz	60 MHz	100 MHz	
H5062NL <sup>2a</sup>	No	1:1	1:1	1	-1.1	-1.0	-2.0	-18	-12	-12	-10	-43	-37	-33	1500
H6062NL <sup>2a</sup>	Yes	1:1	1:1	1	-1.1	-1.0	-2.0	-18	-12	-12	-10	-43	-37	-33	1500
H6080NL <sup>2a</sup>	Yes	1:1	1:1	2	-1.1	-1.0	-2.0	-18	-12	-12	-10	-43	-37	-33	1500

- For Tape & Reel packaging add a "T" suffix to the end of the part number when ordering, e.g. H5062NLT
- MSL = Moisture Sensitivity Level a=1 b=2 c=3 d=4 e=5

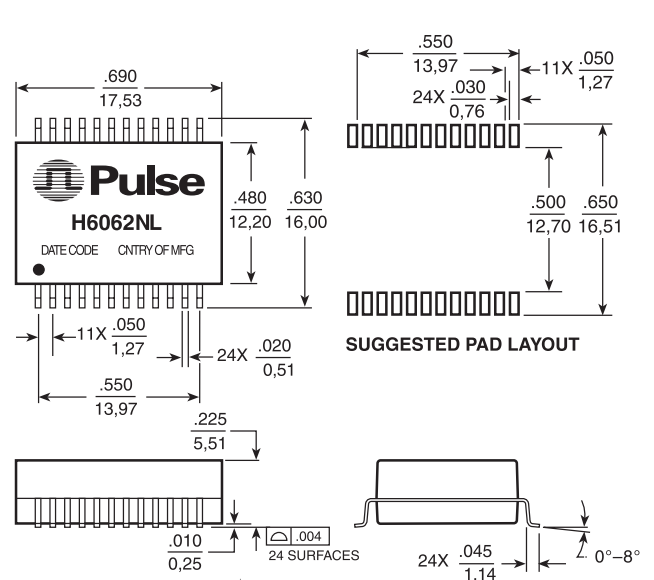
## Mechanicals

### H5062NL



Weight . . . . . 2.7 grams  
Tape & Reel . . . . . 300/reel  
Tube . . . . . 25/tube

### H6062NL



Weight . . . . . 2.63 grams  
Tape & Reel . . . . . 300/reel  
Tube . . . . . 25

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

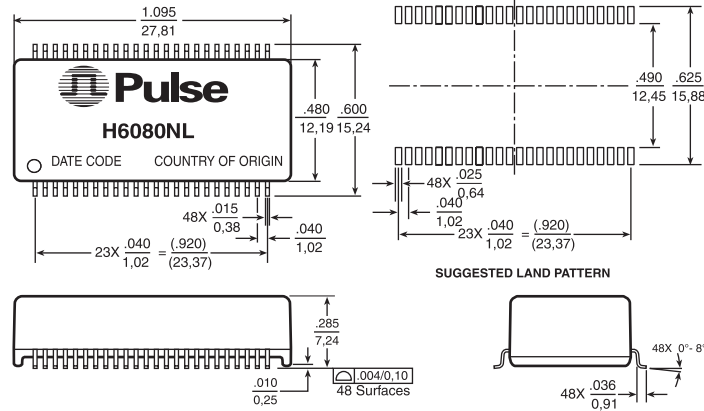
# Star Magnetics™ Gigabit Transformer Modules with PoE\* Option

\*Power over Ethernet



## Mechanicals (continued)

### H6080NL

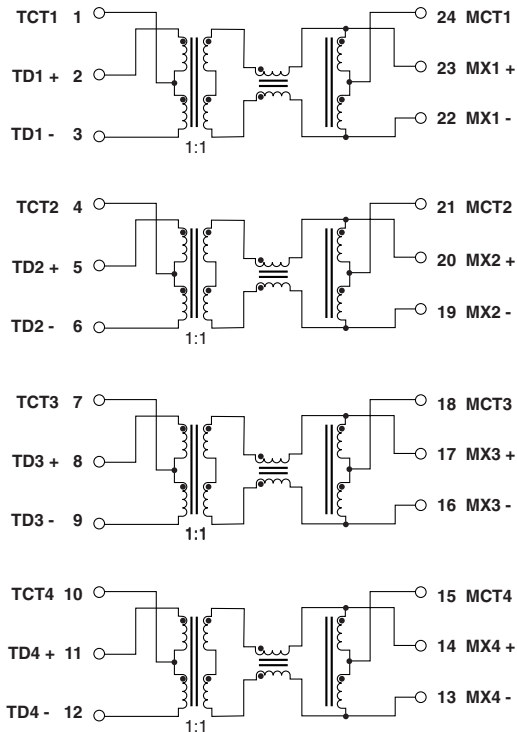


Dimensions:  $\frac{\text{Inches}}{\text{mm}}$  Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0,25}$

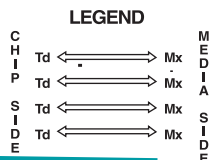
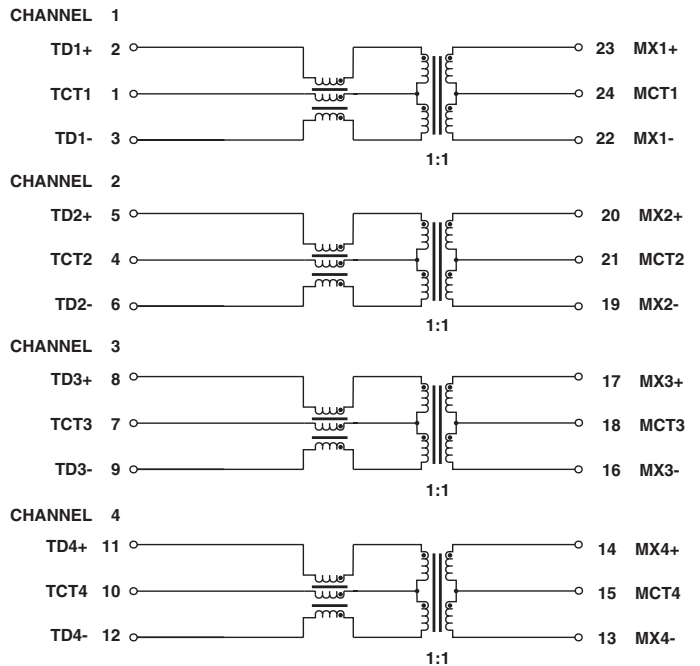
Weight .....4.0 grams  
Tape & Reel ..... 250/reel  
Tube ..... .15/tube

## Schematics

### H5062NL



### H6062NL



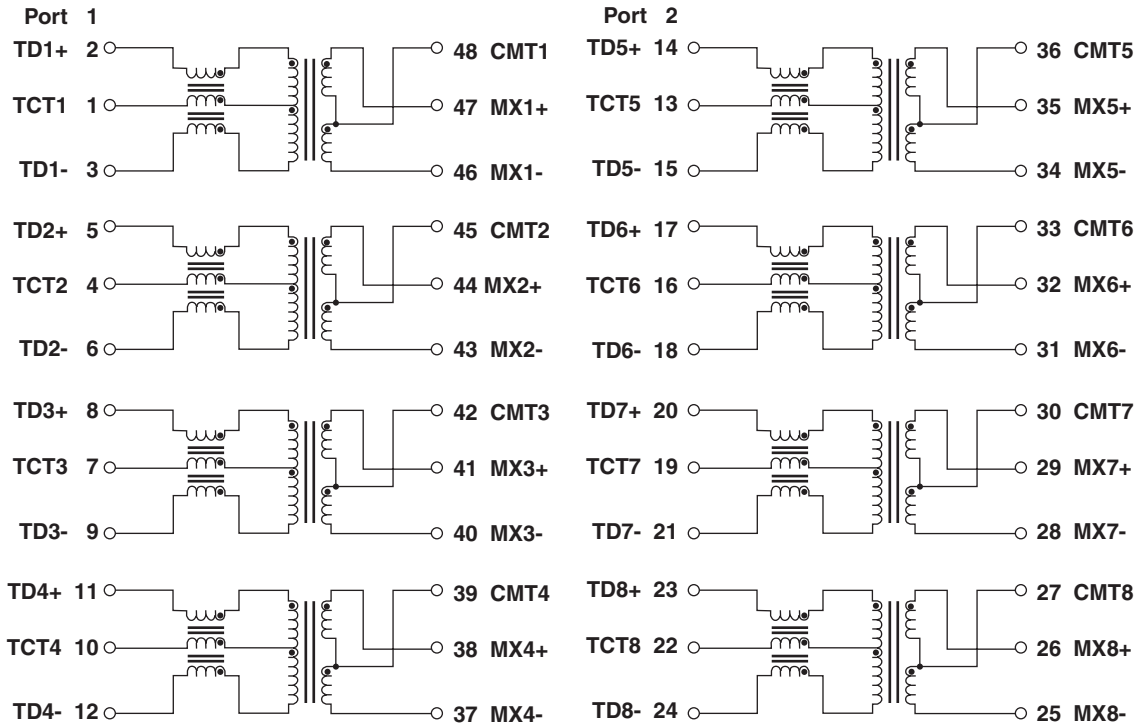
# Star Magnetics™ Gigabit Transformer Modules with PoE\* Option

\*Power over Ethernet



## Schematics (continued)

### H6080NL



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