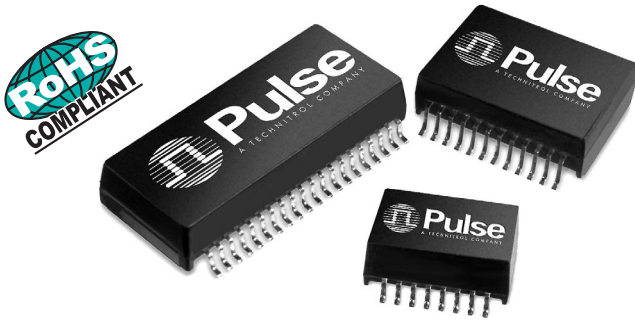


Star Magnetics™ Gigabit Transformer Modules with PoE* Option

*Power over Ethernet



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

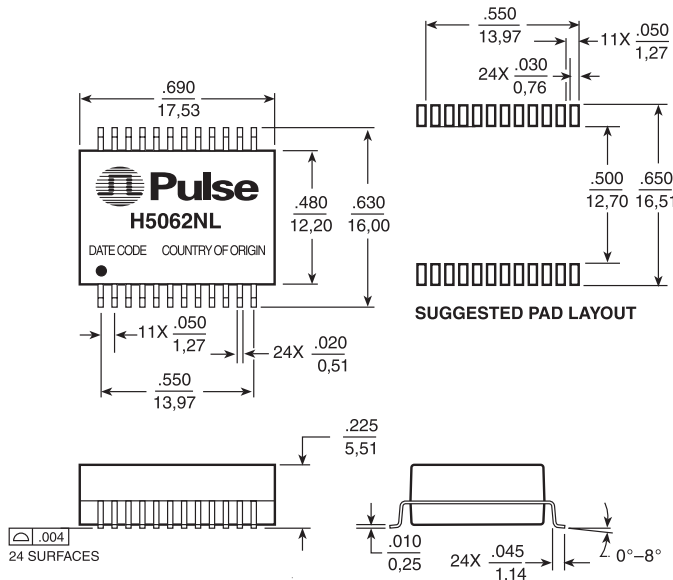
Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

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 ^{2a}	No	1:1	1:1	1	-1.1	-1.0	-2.0	-18	-12	-12	-10	-43	-37	-33	1500
H6062NL ^{2a}	Yes	1:1	1:1	1	-1.1	-1.0	-2.0	-18	-12	-12	-10	-43	-37	-33	1500
H6080NL ^{2a}	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

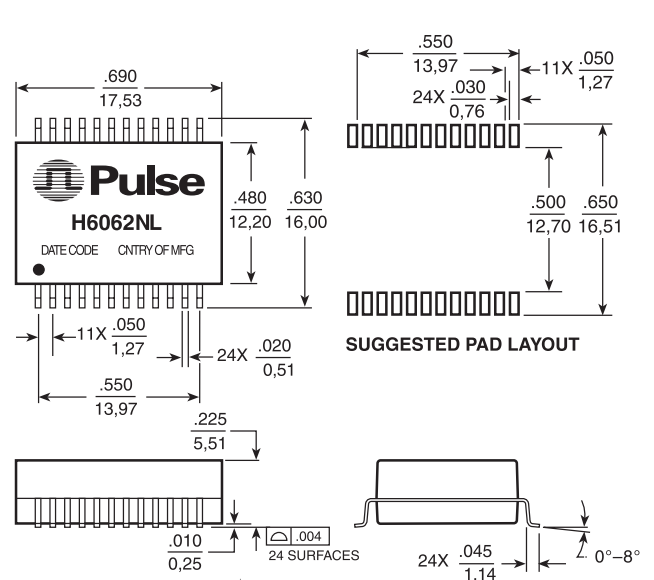
Mechanicals

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 $\pm \frac{.010}{0.25}$

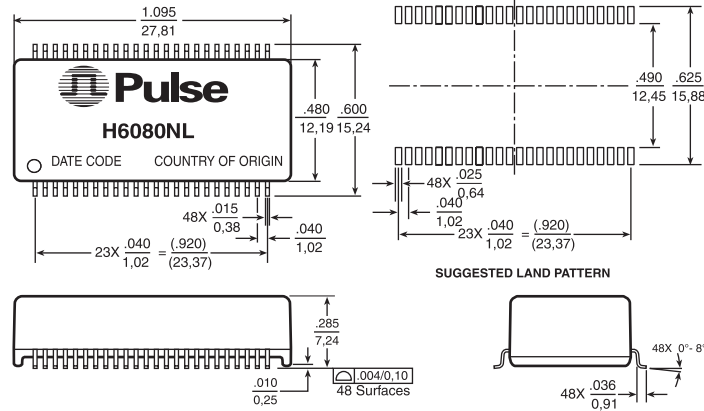
Star Magnetics™ Gigabit Transformer Modules with PoE* Option

*Power over Ethernet



Mechanicals (continued)

H6080NL

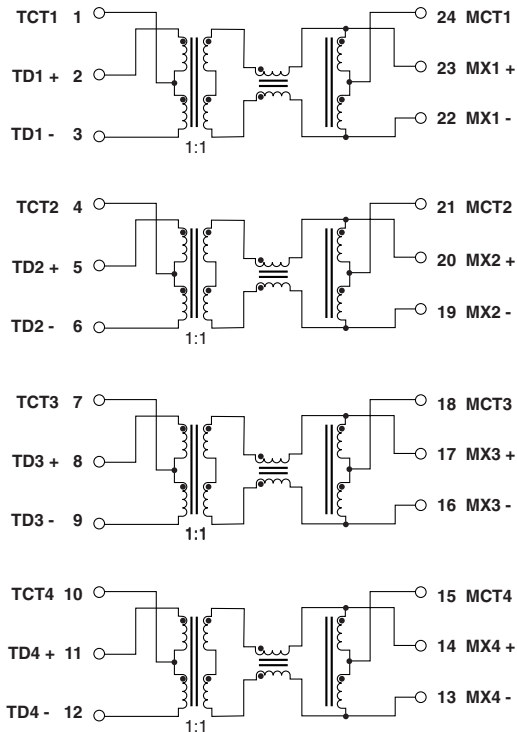


Dimensions: $\frac{\text{Inches}}{\text{mm}}$ Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

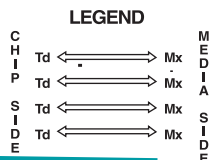
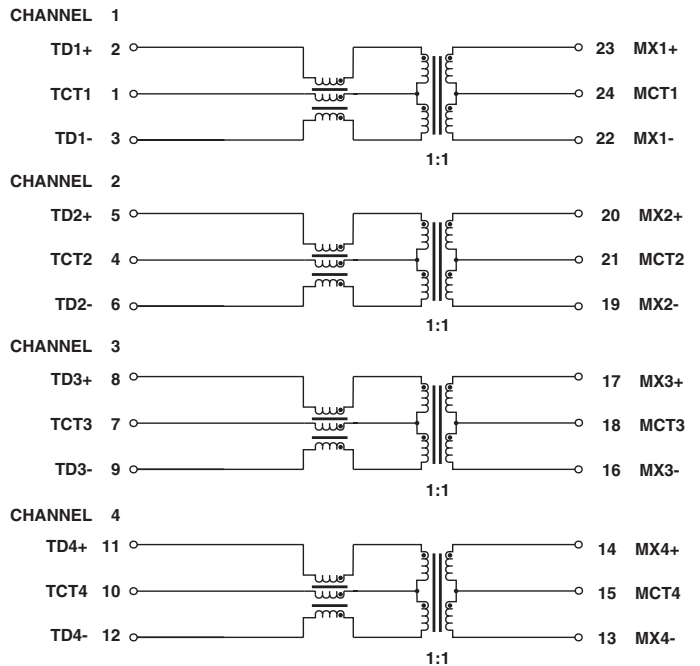
Weight 4.0 grams
Tape & Reel 250/reel
Tube 15/tube

Schematics

H5062NL



H6062NL



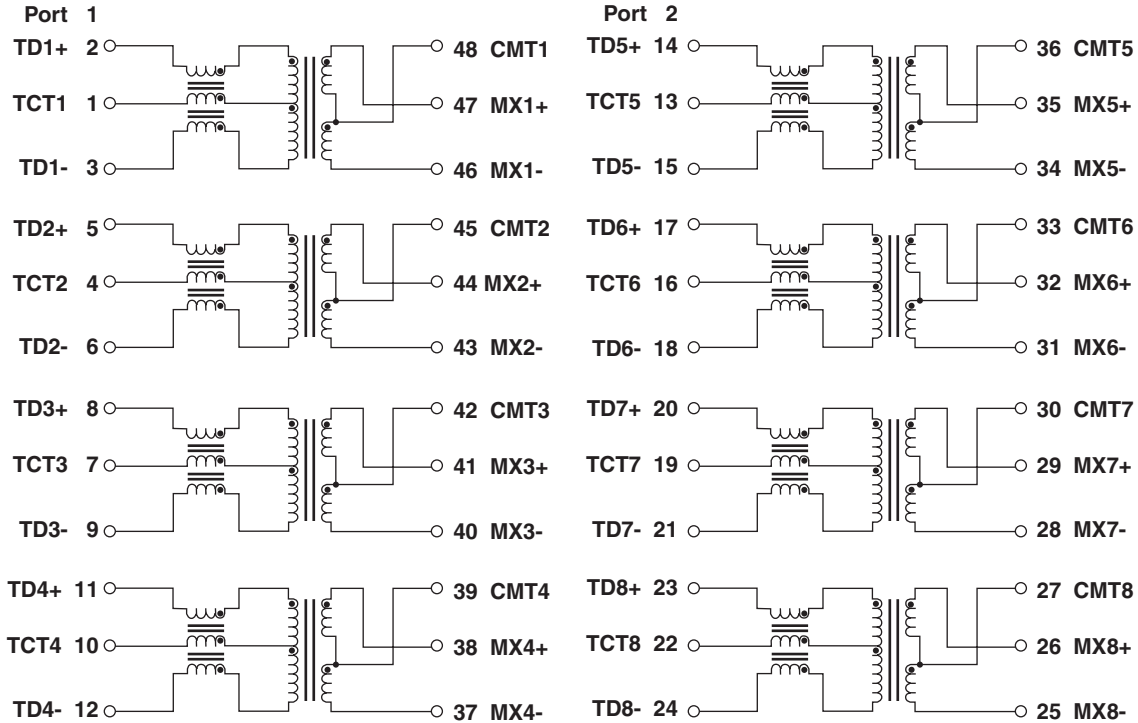
Star Magnetics™ Gigabit Transformer Modules with PoE* Option

*Power over Ethernet



Schematics (continued)

H6080NL



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