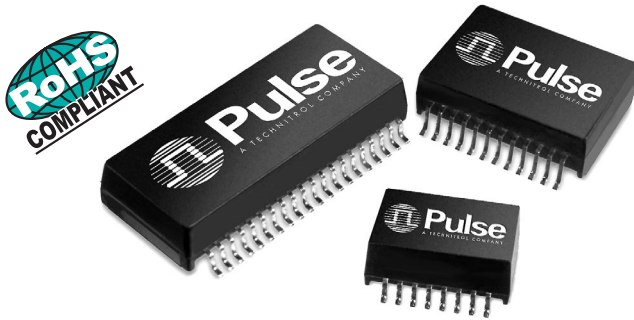
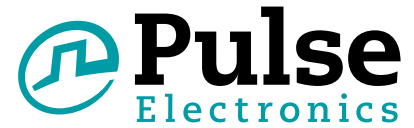


Star Magnetics™ Gigabit Transformer Modules with PoE* Option

*Power over Ethernet



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

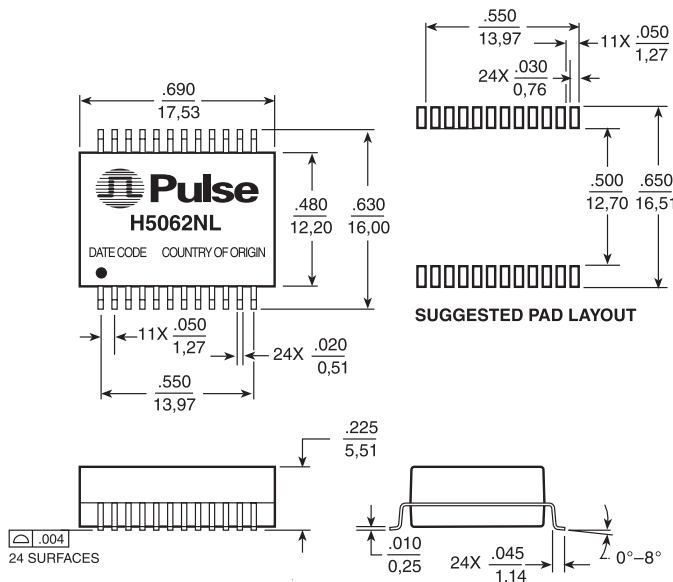
Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

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

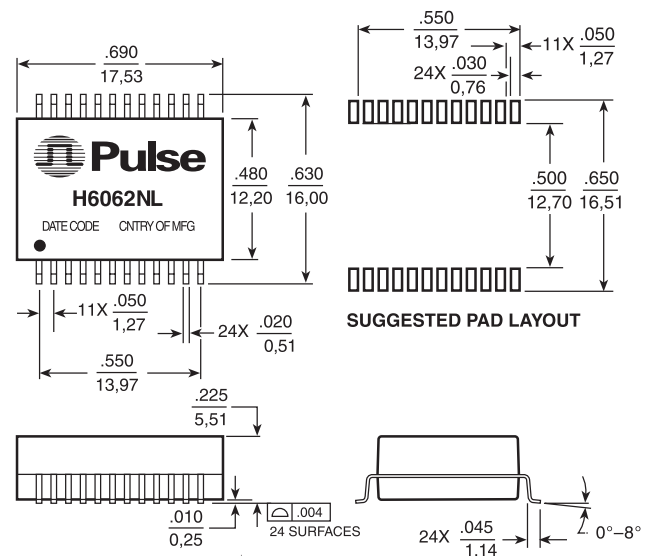


Weight 2.7 grams
Tape & Reel 300/reel
Tube 25/tube

Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$

H6062NL



Weight 2.63 grams
Tape & Reel 300/reel
Tube 25

*Power over Ethernet



H6080NL

DATE CODE COUNTRY OF ORIGIN

SUGGESTED LAND PATTERN

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

Schematics

CHANNEL 1

TD1+ 2

TCT1 1

TD1- 3

23 MX1+

24 MCT1

22 MX1-

1:1

CHANNEL 2

TD2+ 5

TCT2 4

TD2- 6

20 MX2+

21 MCT2

19 MX2-

1:1

CHANNEL 3

TD3+ 8

TCT3 7

TD3- 9

17 MX3+

18 MCT3

16 MX3-

1:1

CHANNEL 4

TD4+ 11

TCT4 10

TD4- 12

14 MX4+

15 MCT4

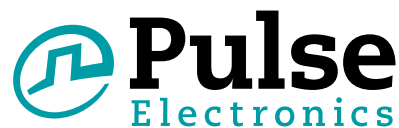
13 MX4-

1:1

CHIP SIDE

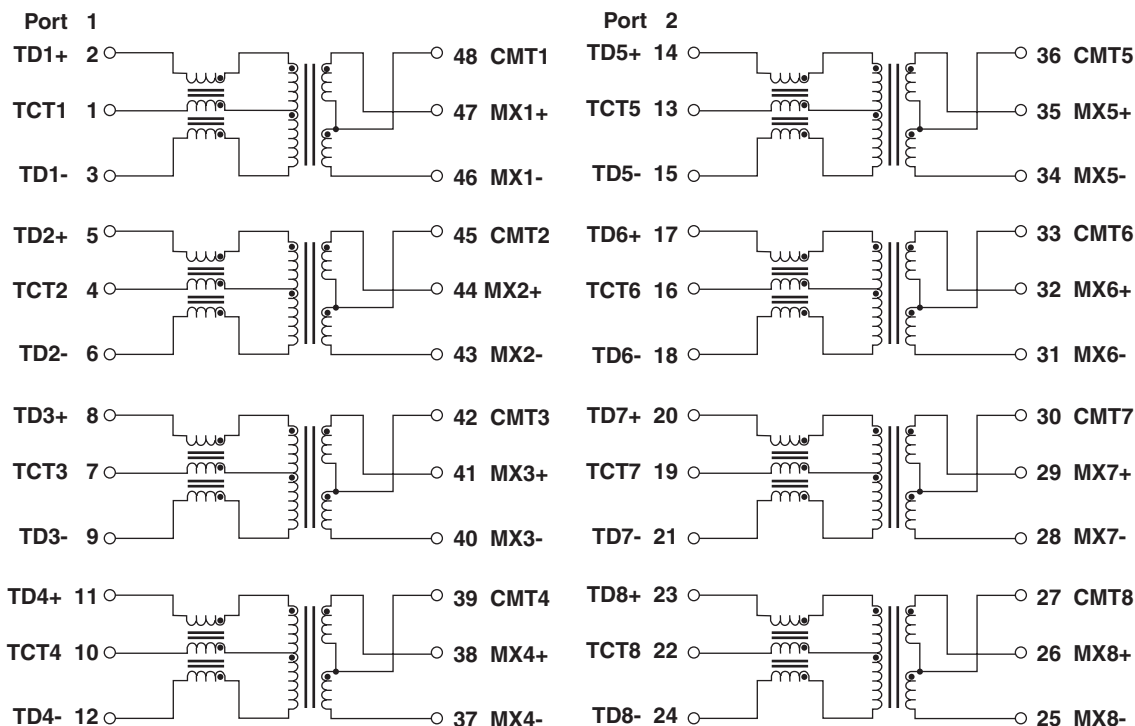
Star Magnetics™ Gigabit Transformer Modules with PoE* Option

*Power over Ethernet



Schematics (continued)

H6080NL



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