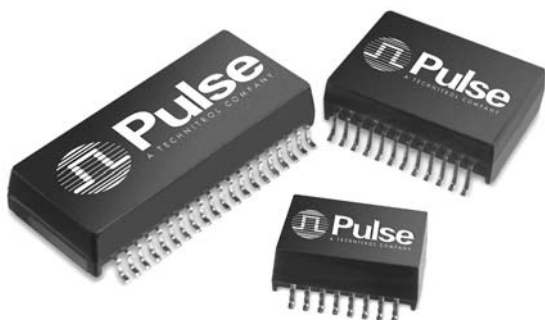


Star Magnetics™

Fast Ethernet (10/100) & Gigabit (10/100/1000)



- Manufacturing design complies with IEEE 802.3 standard
- Designed for reflow soldering process up to 235°C IR reflow
- Compact footprint

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

Part Number Data Rate (Mbps)		Turns Ratio		Number of Ports	Insertion Loss (dB MAX)				Return Loss (Z out = 100 Ω ±15%)				Crosstalk (adjacent channels, dB MIN)			Hipot (V _{RMS} MIN)
10/100	10/100/1000	TX	RX		0.1 MHz	1 MHz	100 MHz	125 MHz	30 MHz	60 MHz	80 MHz	100 MHz	30 MHz	60 MHz	100 MHz	
H0055 ¹	—	1:1	1:1	1	-2.5	—	-1.0	—	-16	-10	-10	—	-45	-40	-33	1500
H0056 ²	—	1:1	1:1	1	—	-0.8	-0.9	—	-16	-10	-10	—	-45	-40	-33	1500
H1259	—	1:1	1:1	4	-1.2	—	-1.4	—	-16	-10	-10	—	-45	-40	-33	1500
H1260	—	1:1	1:1	1	-1.1	—	-1.1	—	-16	-10	-10	—	-35	-30	-30	1500
H1265	—	1:1	1:1	1	-1.3	—	-1.0	—	-16	-10	-10	—	-40	-38	-33	1500
H1266	—	1:1	1:1	4	-1.2	—	-1.0	—	-16	-10	-10	—	-45	-40	-30	1500
H1278	—	1:1	1:1	1	-1.1	—	-1.0	—	-16	-10	-10	—	-45	-40	-33	1500
—	H5062	1:1	1:1	1	-1.1	—	-1.0	-2.0	-18	-12	-12	-10	-43	-37	-33	1500

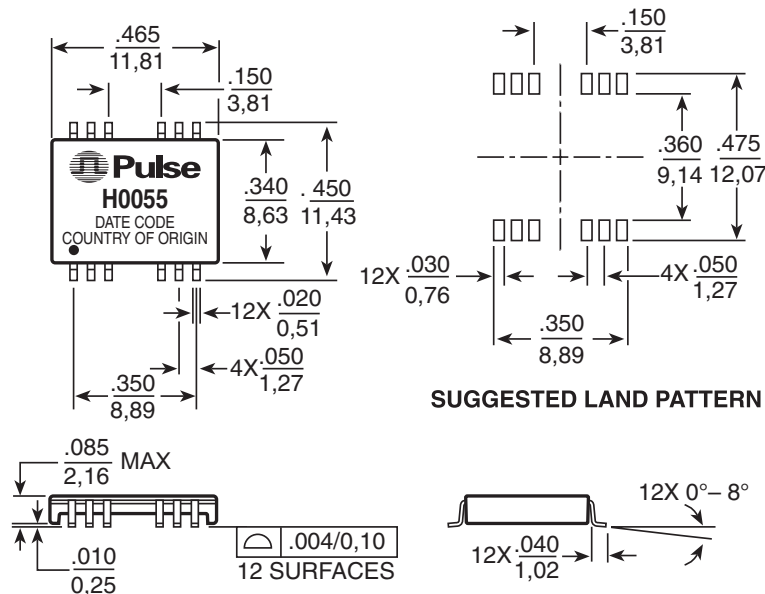
1. H0055 is designed to meet 200 μH nom.

2. H0056 is designed to meet 300 μH nom.

NOTE: "—" = not tested at that frequency.

Mechanicals

H0055



Weight355 grams
Tape & Reel . . .1000/reel
Tube40/tube

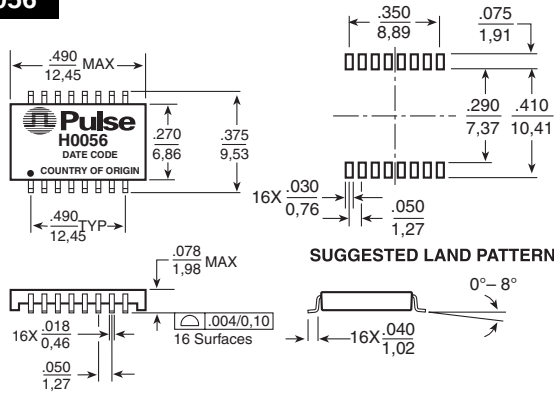
Dimensions: $\frac{\text{Inches}}{\text{mm}}$ Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$

Star Magnetics™ Fast Ethernet (10/100) & Gigabit (10/100/1000)



Mechanicals (continued)

H0056

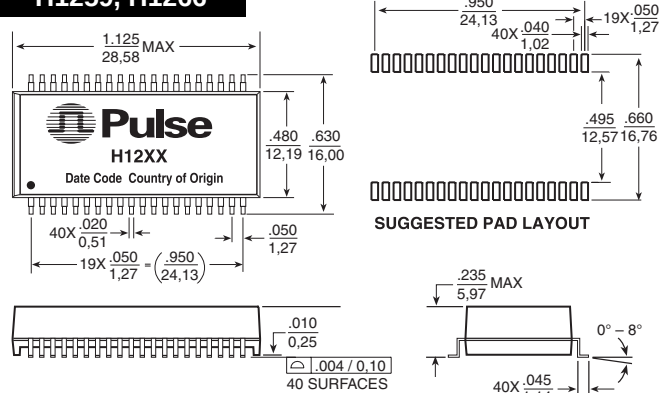


Weight3 grams
Tape & Reel . . .2000/reel
Tube40/tube

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

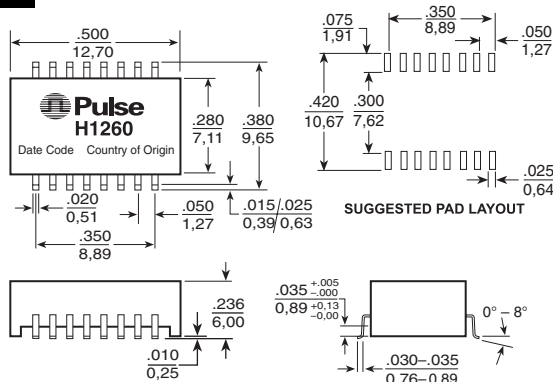
Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

H1259, H1266



Weight4.8 grams
Tape & Reel . . .250/reel
Tube15/tube

H1260

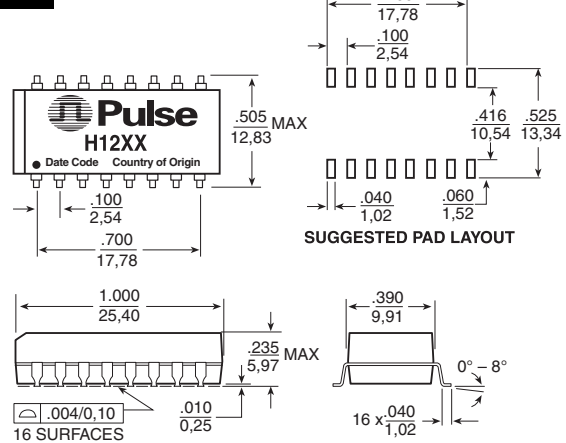


Weight2.8 grams
Tube45/tube
Tape & Reel . . .600/reel

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

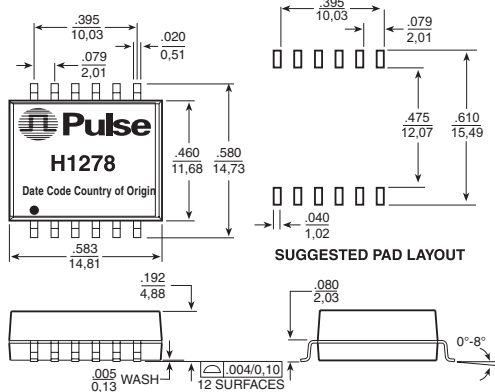
Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

H1265



Weight3.0 grams
Tube20/tube
Tape & Reel . . .300/reel

H1278

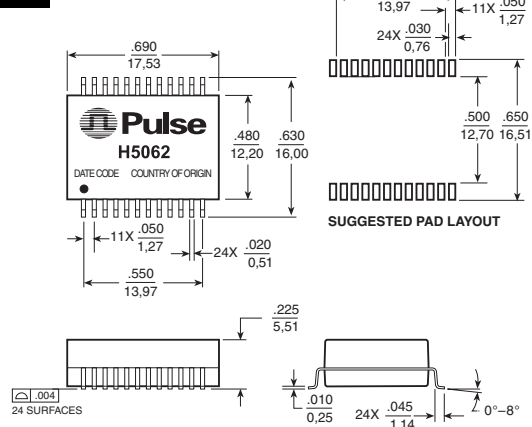


Weight1.7 grams
Tape & Reel . . .350/reel
Tube30/tube

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

Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

H5062



Weight2.7 grams
Tape & Reel . . .300/reel
Tube25/tube

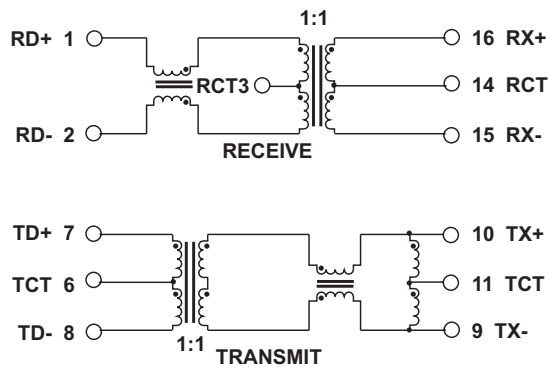
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Fast Ethernet (10/100) & Gigabit (10/100/1000)

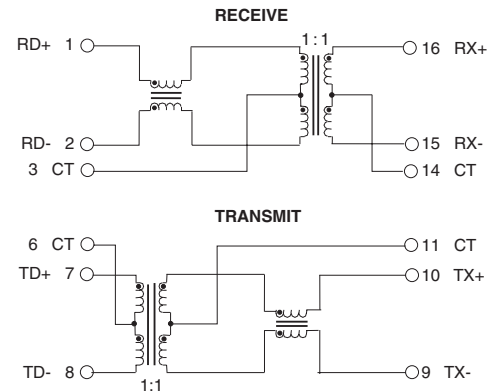


Schematics

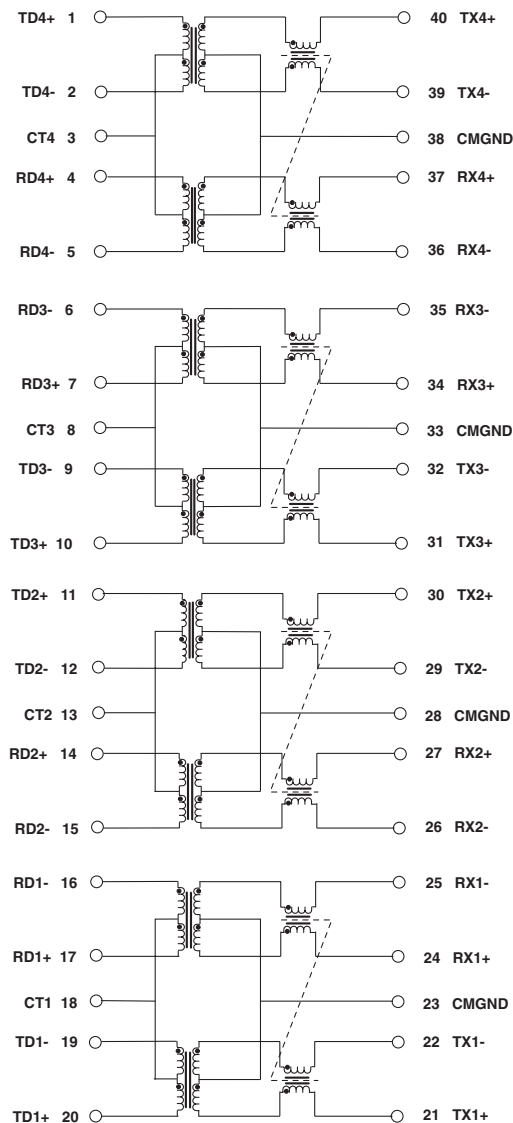
H0055



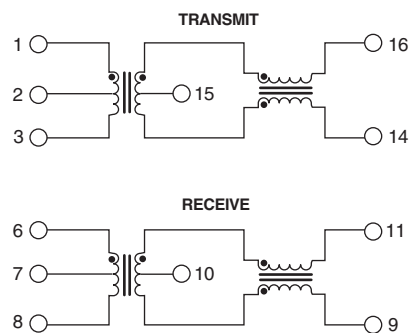
H0056



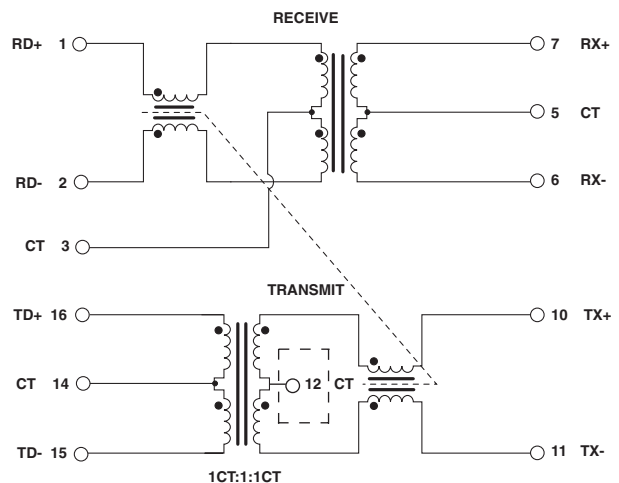
H1259



H1260



H1265



H1265: 3-core design (T3 same toroid core)

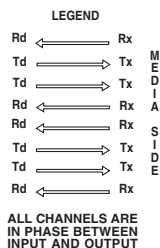
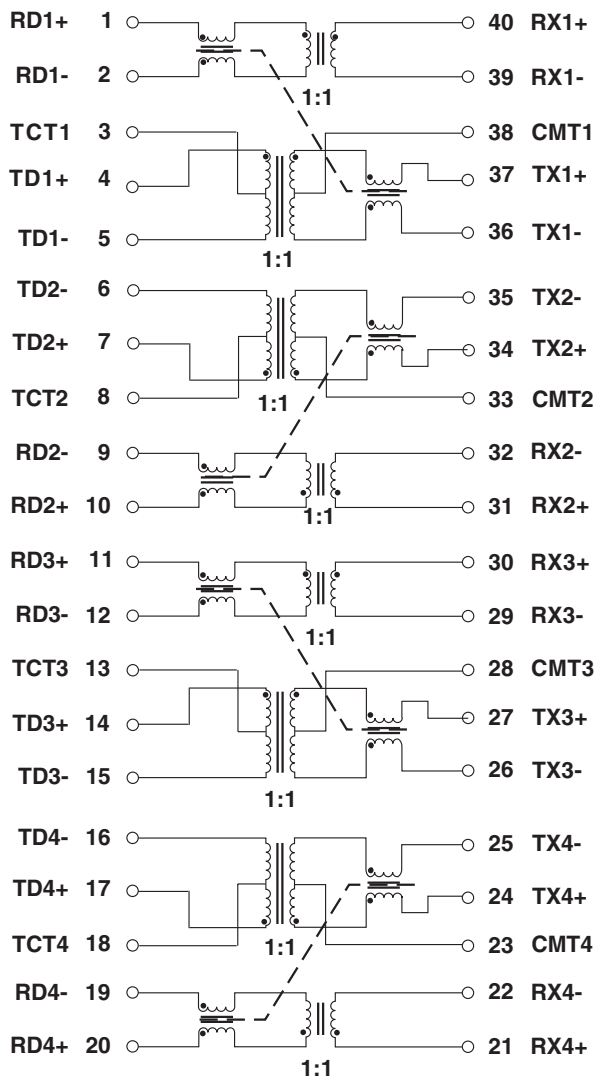
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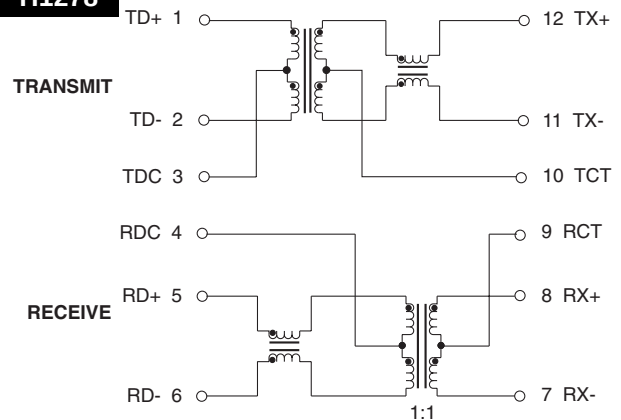


Schematics (continued)

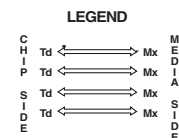
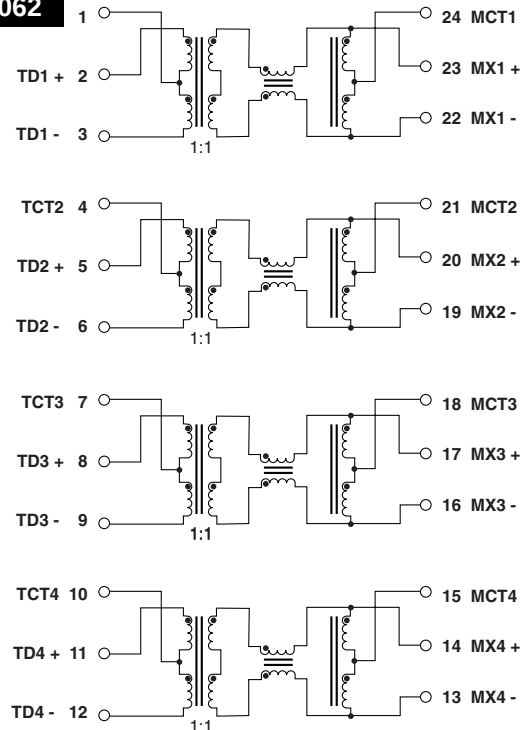
H1266



H1278



H5062



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