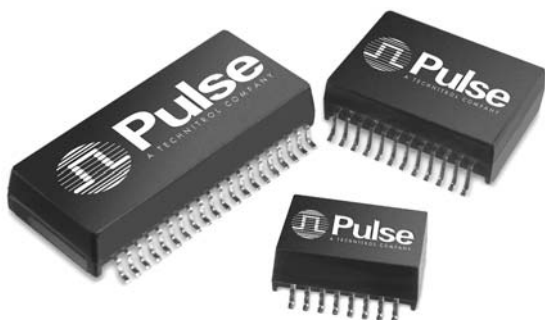


Star Magnetics™

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

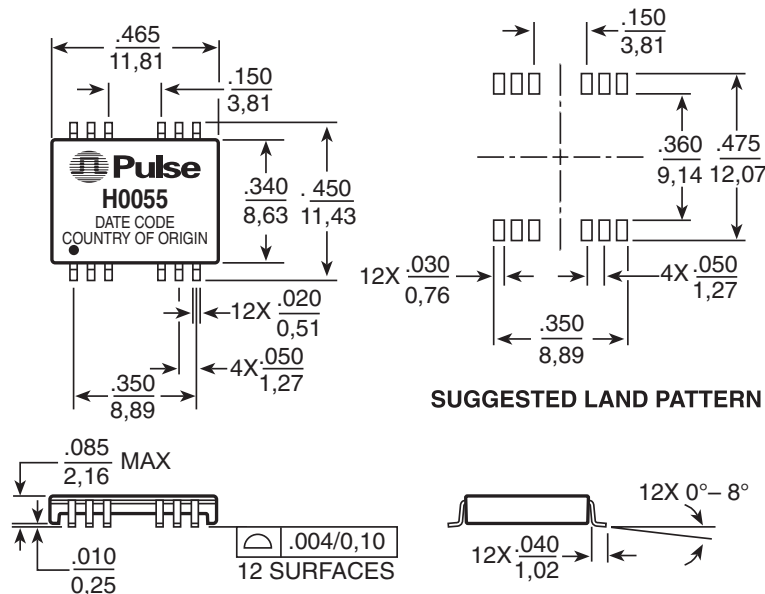
1. H0055 is designed to meet 200 μH nom.

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

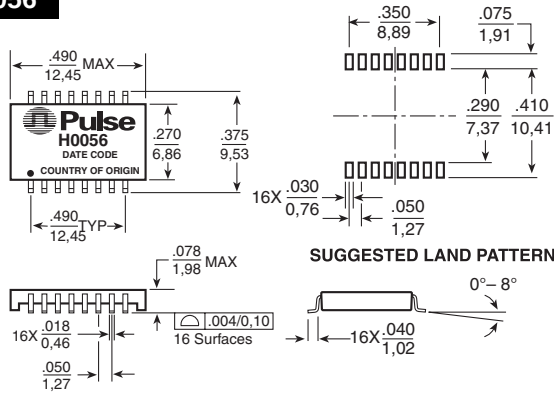
Dimensions: $\frac{\text{Inches}}{\text{mm}}$ Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

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



Mechanicals (continued)

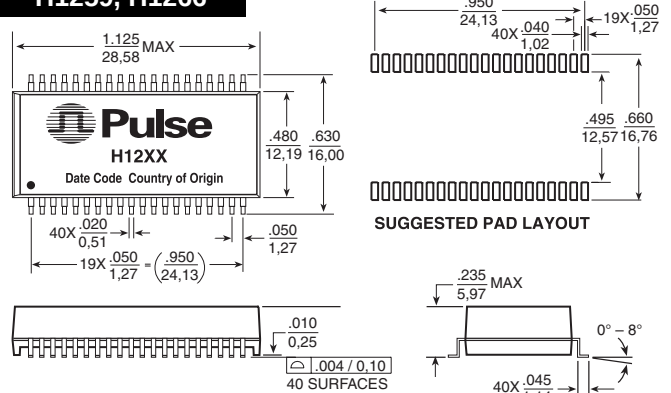
H0056



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

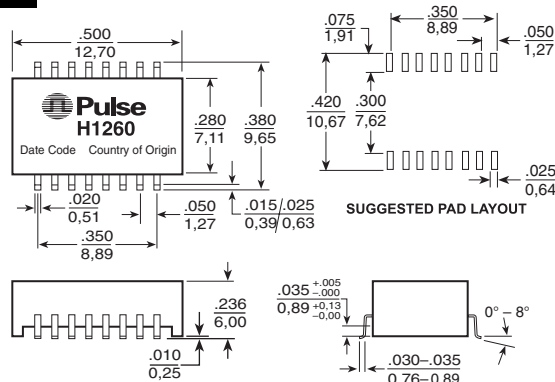
Dimensions: $\frac{\text{Inches}}{\text{mm}}$ Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

H1259, H1266



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

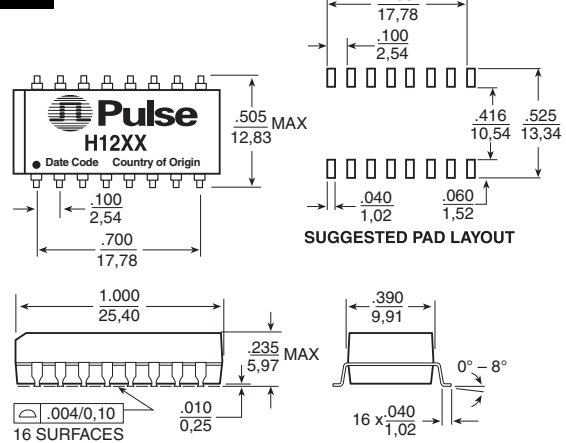
H1260



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

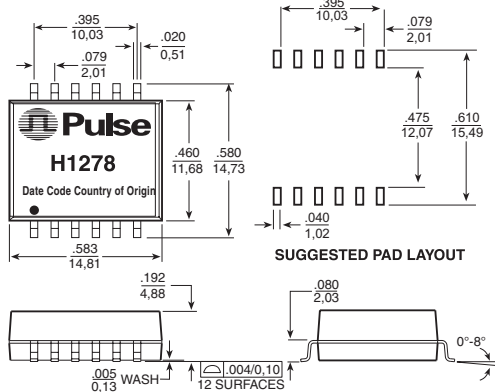
Dimensions: $\frac{\text{Inches}}{\text{mm}}$ Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

H1265



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

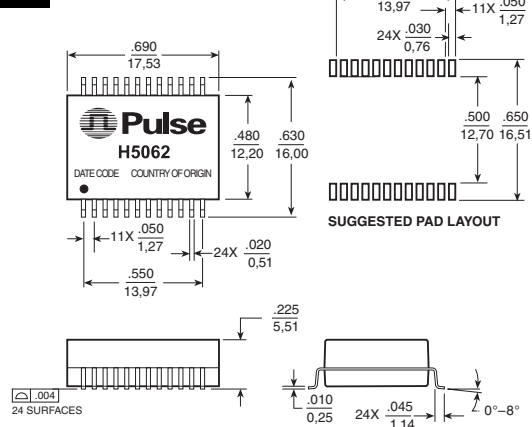
H1278



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

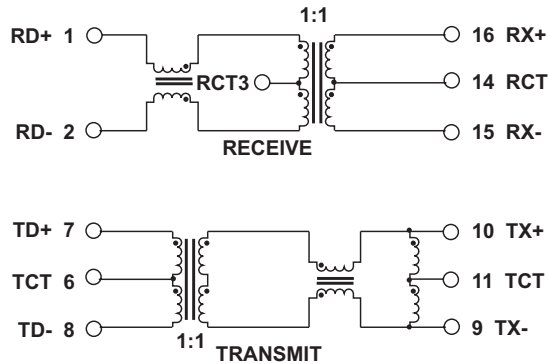
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Fast Ethernet (10/100) & Gigabit (10/100/1000)

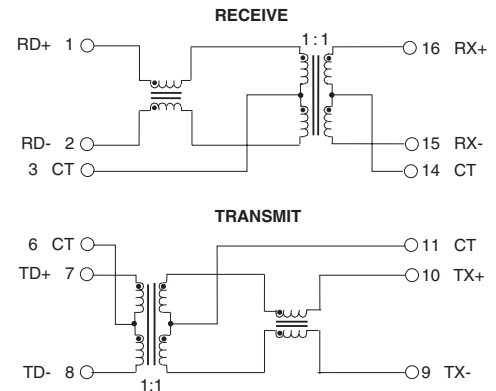


Schematics

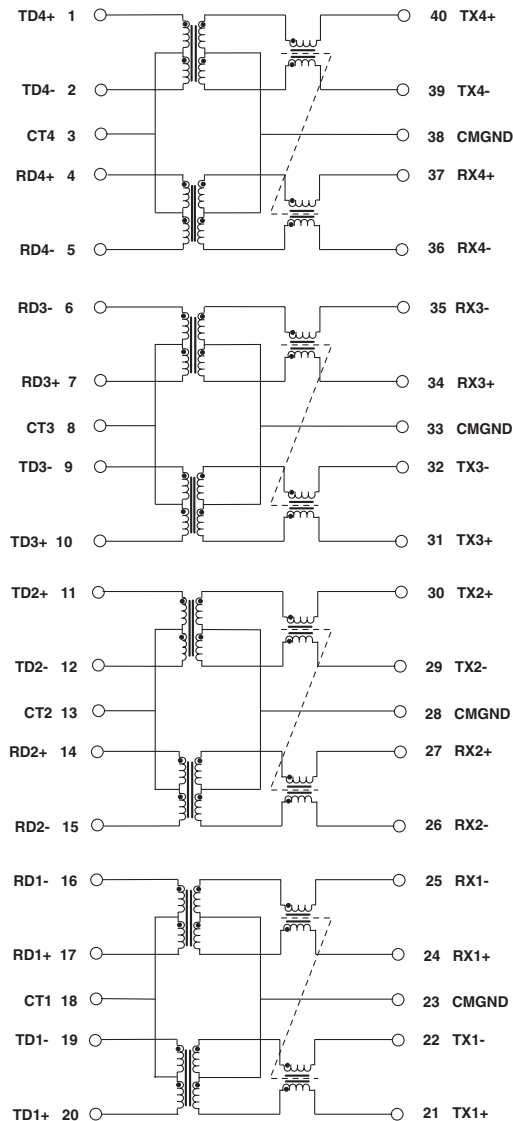
H0055



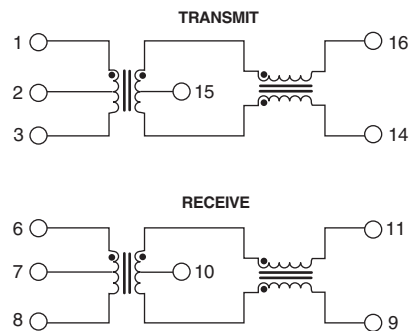
H0056



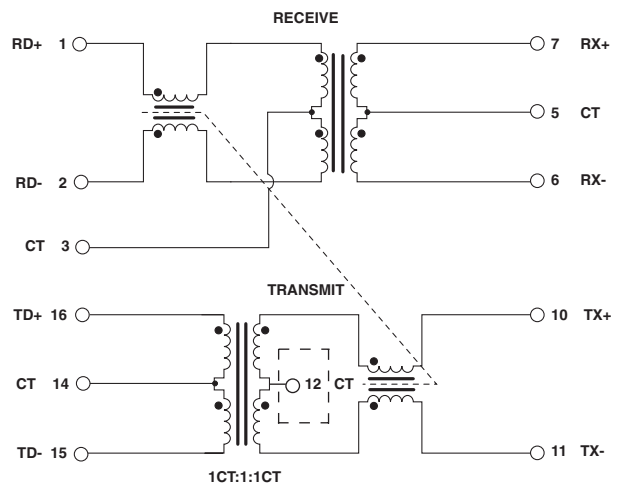
H1259



H1260



H1265



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

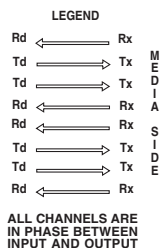
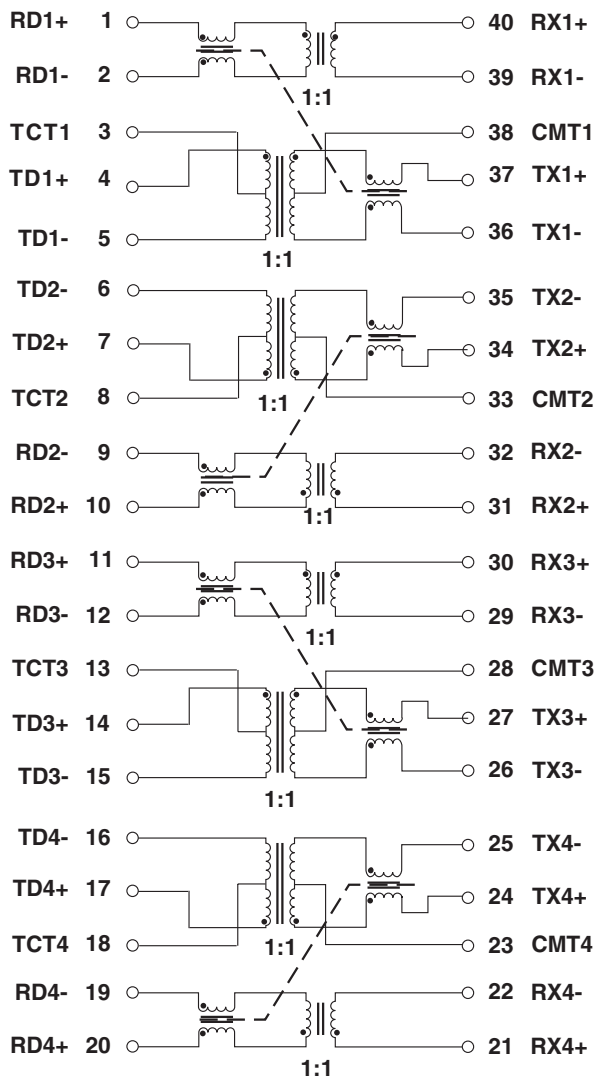
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Fast Ethernet (10/100) & Gigabit (10/100/1000)

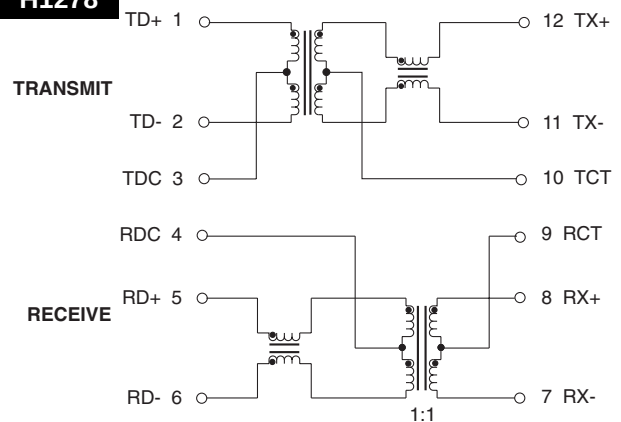


Schematics (continued)

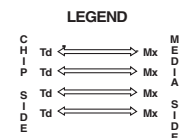
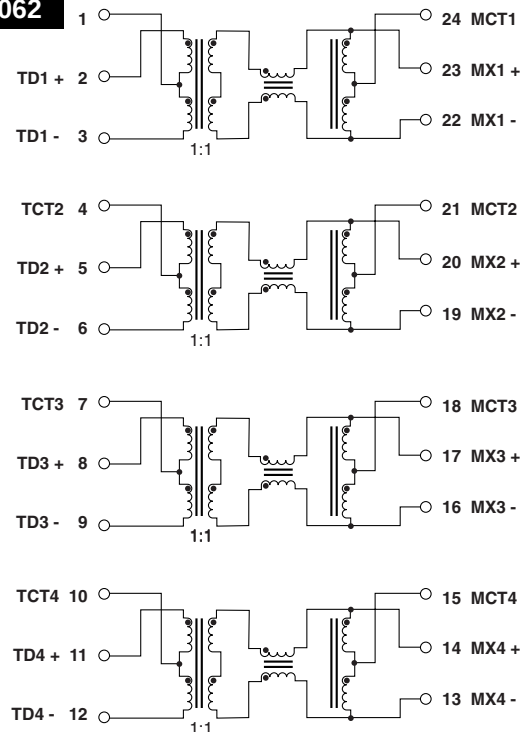
H1266



H1278



H5062



For More Information :

UNITED STATES (Worldwide)

12220 World Trade Drive
San Diego, CA 92128
U.S.A.
<http://www.pulseeng.com>
TEL: 858 674 8100
FAX: 858 674 8262

UNITED KINGDOM (Northern Europe)

1 & 2 Huxley Road
The Surrey Research Park
Guildford, Surrey GU2 5RE
United Kingdom
TEL: 44 1483 401700
FAX: 44 1483 401701

FRANCE (Southern Europe)

Zone Industrielle
F-39270
Orgelet
France
TEL: 33 3 84 35 04 04
FAX: 33 3 84 25 46 41

SINGAPORE (Southern Asia)

150 Kampong Ampat
#07-01/02
KA Centre
Singapore 368324
TEL: 65 6287 8998
FAX: 65 6280 0080

TAIWAN, R.O.C. (Northern Asia)

3F-4, No. 81, Sec. 1
HsinTai Wu Road
Hsi-Chih, Taipei Hsien
Taiwan, R.O.C.
Tel: 886 2 2698 0228
FAX: 886 2 2698 0948

HONG KONG (China/Hong Kong)

9/F, Phase 2, Tai Sang
Shatin Warehouse Centre
6 Wong Chuk Yeung Street
Fotan Shatin, Hong Kong
TEL: 852 2788 6588
FAX: 852 2776 1055

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