

阅读申明

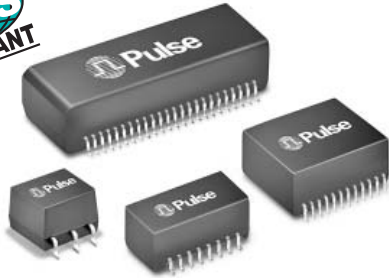
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POWER OVER ETHERNET (PoE) MAGNETICS

10/100BASE-TX VoIP Magnetics Modules



- RoHS peak reflow temperature rating 245°C
- IEEE 802.3af/ANSI X3.263 compliant performance
- Designed for IP phone or switch applications

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

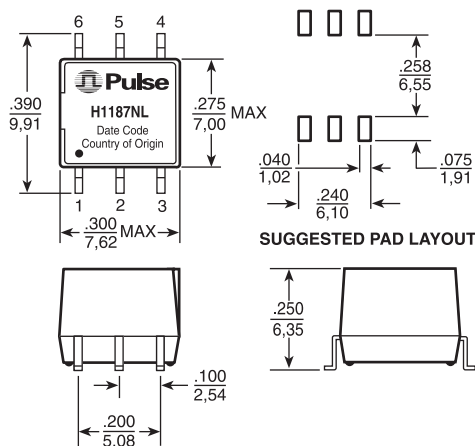
| Part Number | Ports | Insertion Loss (dB MAX) | Return Loss (dB MIN @ 100 Ω) | | | | | Differential to Common Mode Rejection (dB MIN) | | | Cross Talk (dB MIN) | | | Hipot (Vrms MIN)) | DC Resistance Balance ≤ (%) |
|--------------------------|-------|-------------------------|------------------------------|----------|--------|--------|-----------|--|--------|---------|---------------------|--------|---------|-------------------|-----------------------------|
| | | | 1-100 MHz | 1-30 MHz | 40 MHz | 50 MHz | 60-80 MHz | 30 MHz | 60 MHz | 100 MHz | 30 MHz | 60 MHz | 100 MHz | | |
| H1187NL ^{2a} | 1 | -1.2 | -16 | -14 | -13 | -12 | -43 | -37 | -33 | -45 | -40 | -35 | 1500 | — | |
| H1197NL ^{2a} | 1 | -1.2 | -16 | -14 | -13 | -12 | -43 | -37 | -33 | -45 | -40 | -35 | 1500 | — | |
| H2019NL ^{2a} | 1 | -1.2 | -16 | -14 | -13 | -12 | -43 | -37 | -33 | -45 | -40 | -35 | 1500 | 3.5 | |
| H2005ANL ^{2c} | 2 | -1.2 | -16 | -14 | -13 | -12 | -50 | -43 | -35 | -43 | -37 | -33 | 1500 | 3.5 | |
| H2006ANL ^{2c} | 2 | -1.2 | -16 | -14 | -13 | -12 | -43 | -37 | -33 | -43 | -37 | -31 | 1500 | 3.5 | |
| H2008NL ^{2c} | 2 | -1.2 | -16 | -14 | -13 | -12 | -40 | -35 | -30 | -43 | -37 | -33 | 1500 | 3.5 | |
| H2009NL ^{2a} | 2 | -1.1 | -16 | -14 | -13 | -12 | -43 | -37 | -33 | -43 | -37 | -33 | 1500 | 3.5 | |
| H2014NL ^{2d} | 4 | -1.2 | -16 | -14 | -13 | -12 | -43 | -37 | -33 | -45 | -40 | -35 | 1500 | 3.5 | |
| H2017NL ^{2c} | 4 | -1.2 | -16 | -14 | -13 | -12 | -43 | -37 | -33 | -45 | -40 | -35 | 1800 | 3.5 | |
| HX2019NL ^{1,2a} | 1 | -1.4 | -16 | -14 | -13 | -12 | -43 | -37 | -33 | -45 | -40 | -35 | 1500 | 3.5 | |

1. **Extended** operating temperature (-40°C to +85°C)
2. **MSL** (Moisture Sensitivity Level): a = 1, b = 2, c = 3, d = 4, e = 5

NOTE: When ordering Tape & Reel packaging, add the suffix "T" to the end of the part number. For example: H2008NLT.

Mechanicals

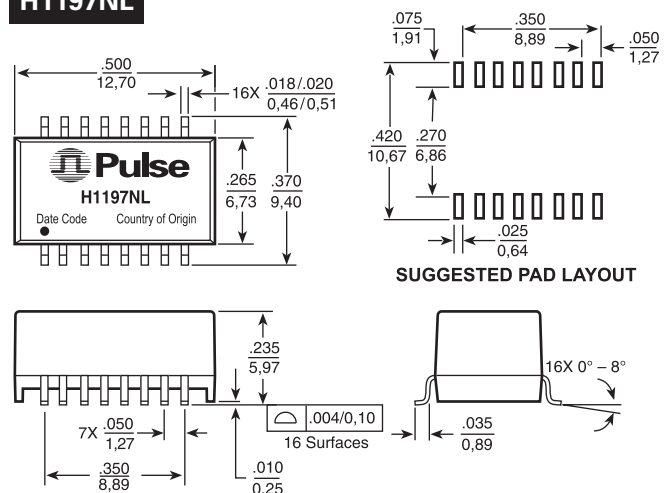
H1187NL



Weight 0.6 grams
Tape & Reel 500/reel
Tube 70/tube

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

H1197NL



Weight 2.8 grams
Tape & Reel 600/reel
Tube 45/tube

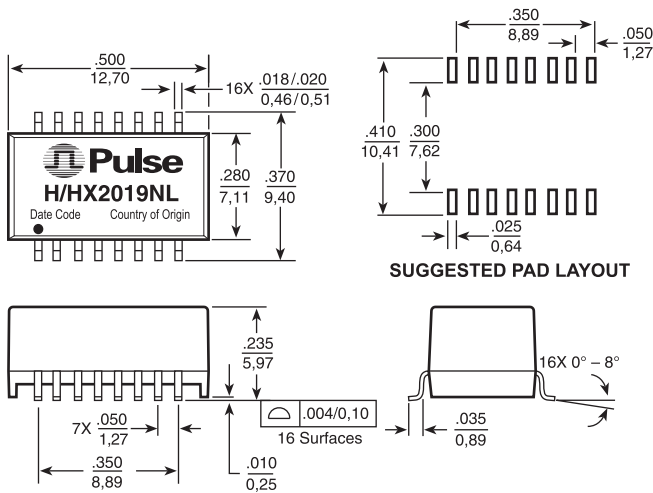
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10/100BASE-TX VoIP Magnetics Modules

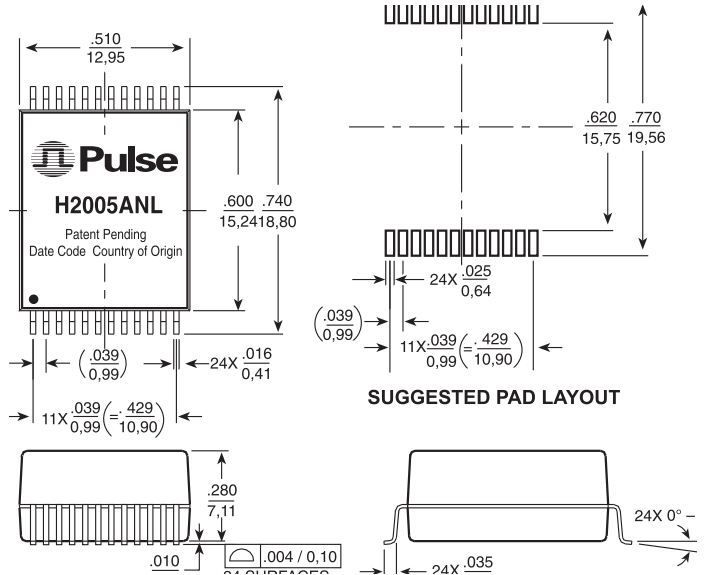


Mechanicals

H2019NL, HX2019NL



H2005ANL

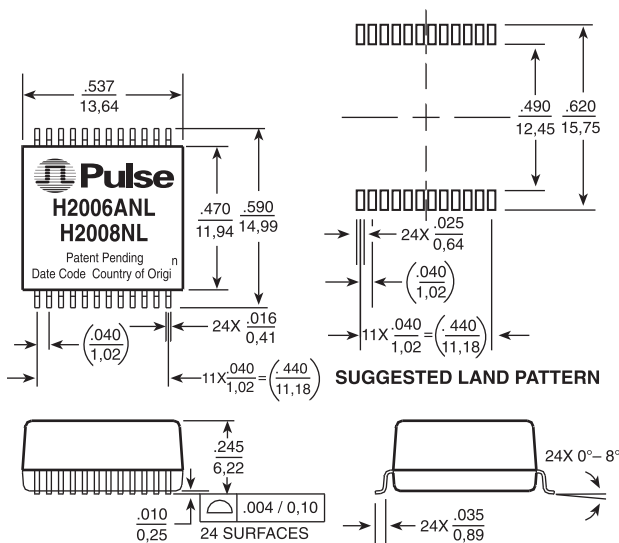


Weight 1.0 grams
Tape & Reel 600/reel
Tube 45/tube

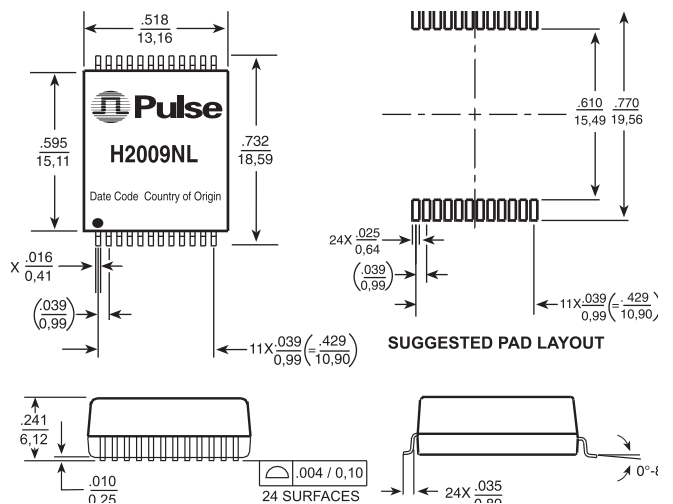
Dimensions: $\frac{\text{Inches}}{\text{mm}}$ Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

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

H2006ANL, H2008NL



H2009NL



Weight 2.4 grams
Tape & Reel 350/reel
Tube 35/tube

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

Weight 1.6 grams
Tape & Reel 300/reel
Tube 35/tube

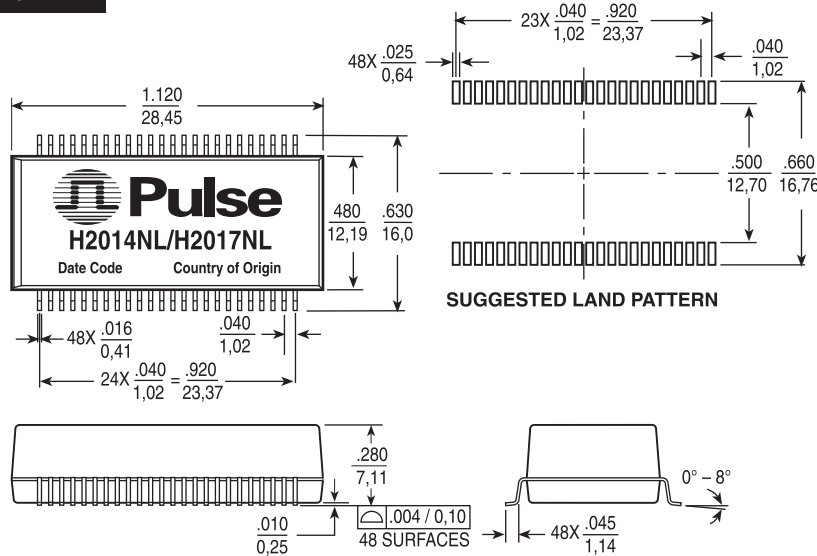
POWER OVER ETHERNET (PoE) MAGNETICS

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Mechanicals (continued)

H2014NL, H2017NL

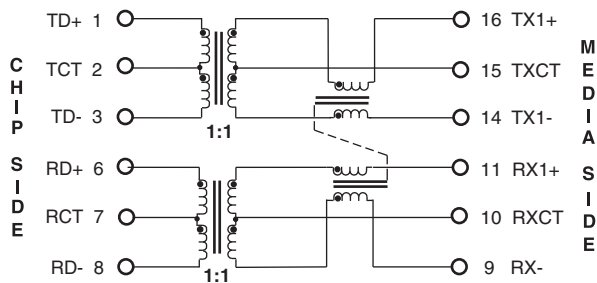


Dimensions: $\frac{\text{Inches}}{\text{mm}}$ Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

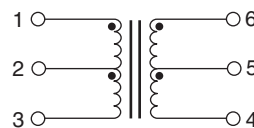
Weight 5.0 grams
Tape & Reel 250 /reel
Tube 15/tube

Schematics

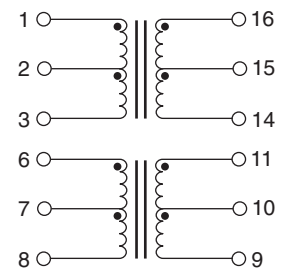
H2019NL, HX2019NL



H1187NL



H1197NL

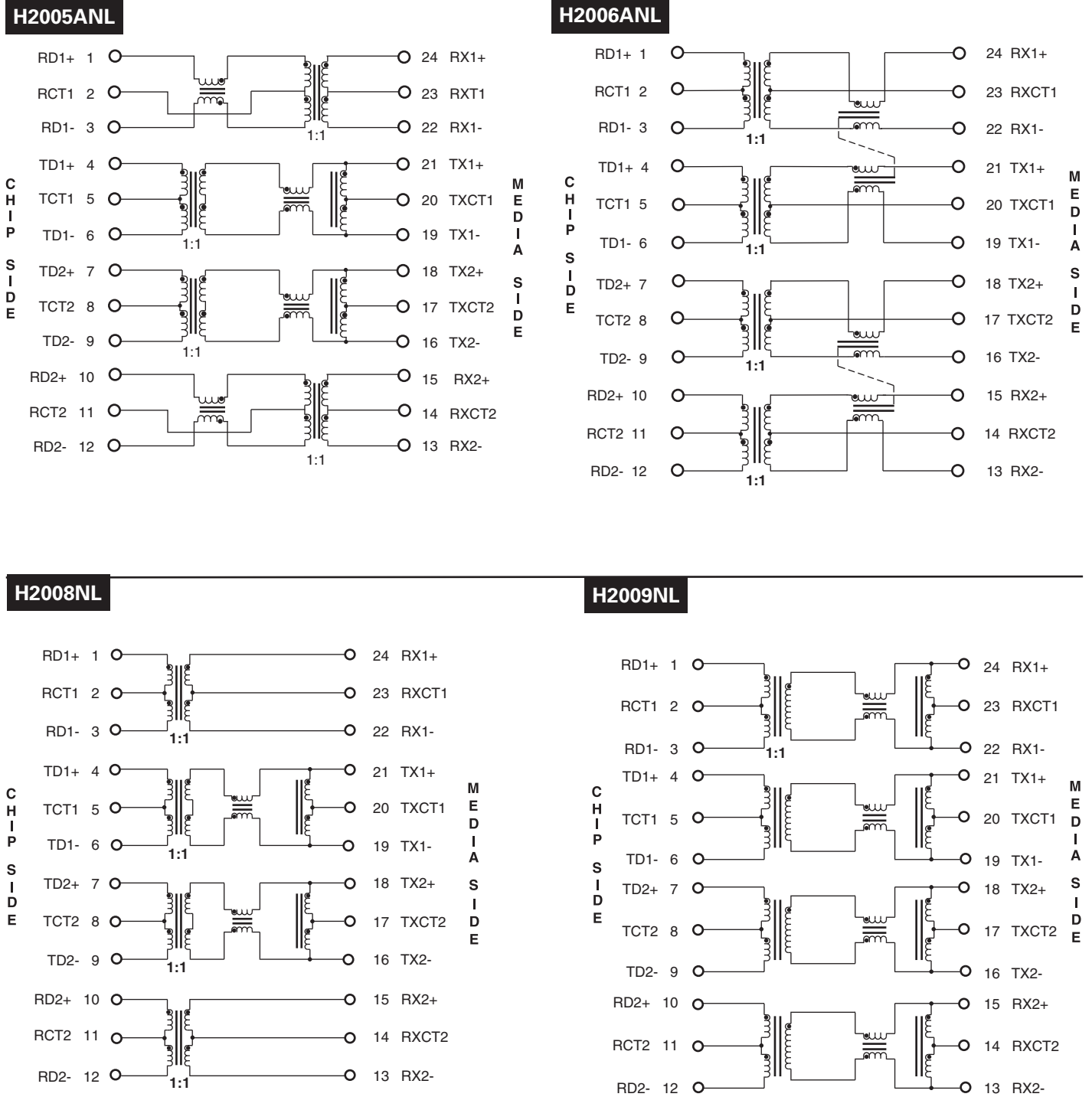


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10/100BASE-TX VoIP Magnetics Modules



Schematics (continued)



POWER OVER ETHERNET (PoE) MAGNETICS

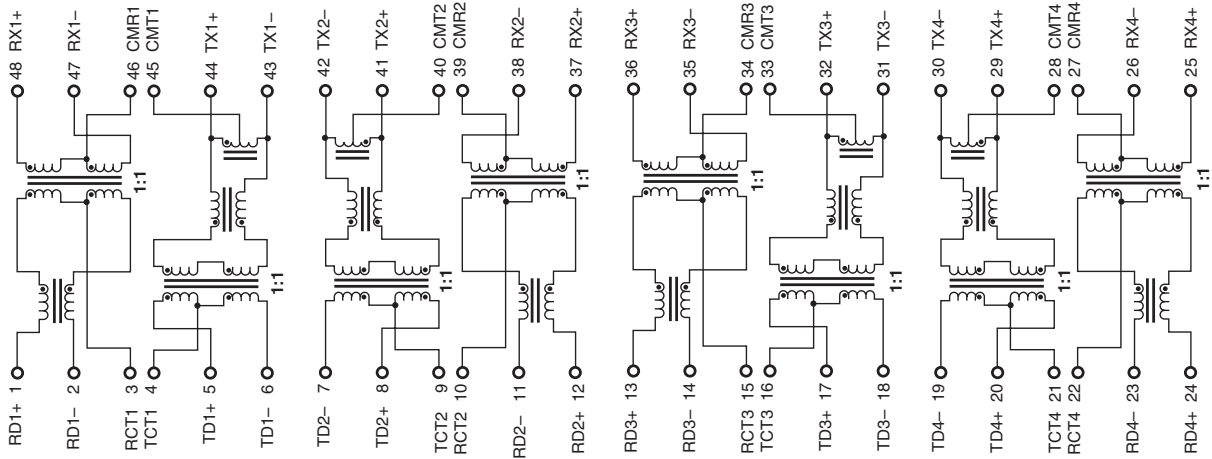
10/100BASE-TX VoIP Magnetics Modules



Schematics (continued)

H2014NL

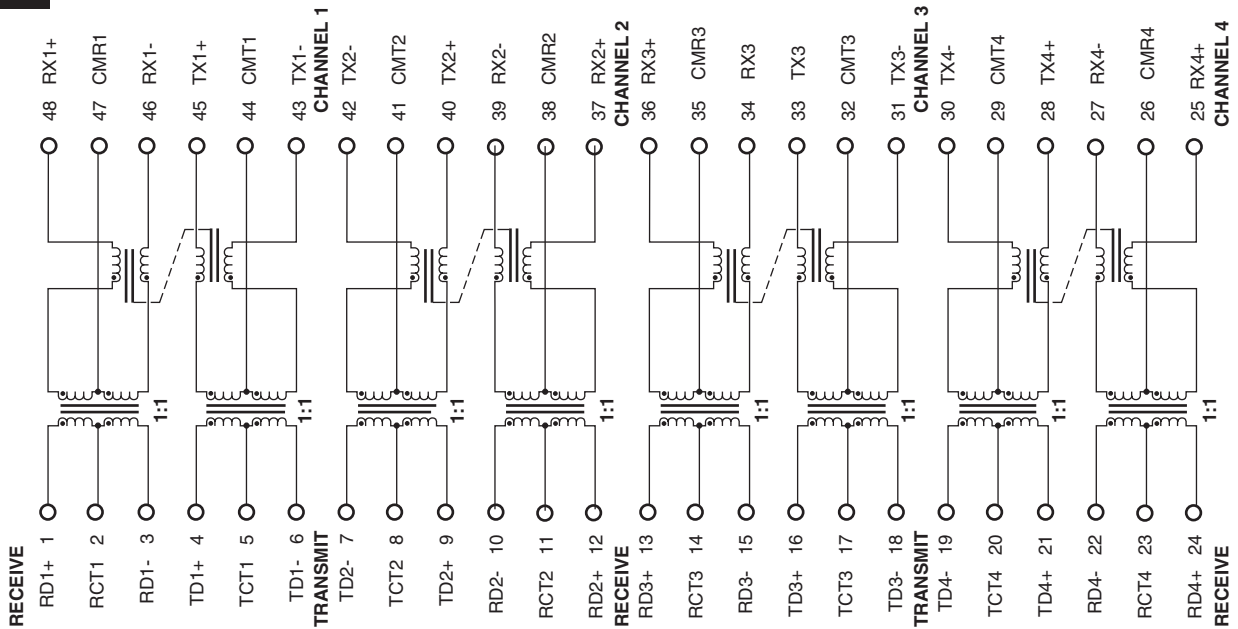
MEDIA SIDE



CHIP SIDE

H2017NL

MEDIA SIDE



CHIP SIDE

For More Information:

Pulse Worldwide Headquarters

12220 World Trade Dr.
San Diego, CA 92128
U.S.A.

Pulse Europe

Einsteinstrasse 1
D-71083 Herrenberg
Germany

Pulse China Headquarters

B402, Shenzhen Academy of
Aerospace Technology Bldg.
10th Kejinan Rd.
High-Tech Zone
Nanshan District
Shenzhen, PR China 518057

Pulse North China

Room 1503
XinYin Building
No. 888 YiShan Rd.
Shanghai 200233
China

Pulse South Asia

135 Joo Seng Rd.
#03-02
PM Industrial Bldg.
Singapore 368363

Pulse North Asia

No. 26, Kao Ching Rd.
Yang Mei Chen
Taoyuan Hsien
Taiwan
R. O. C.

www.pulseeng.com

Tel: 858 674 8100
Fax: 858 674 8262

Tel: 49 7032 7806 0
Fax: 49 7032 7806 135

TEL: 86 755 33966678
FAX: 86 755 33966700

Tel: 86 21 54643211/2
Fax: 86 21 54643210

TEL: 65 6287 8998
FAX: 65 6280 0080

Tel: 886 3 4643715
Fax: 886 3 4641911

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