

## Excellent Integrated System Limited

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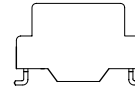
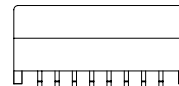
[Pulse Electronics Corporation](#)  
[H1121FNL](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

NOTES:

1. ROHS COMPLIANT
2. HEADER: DAP (DIALYL PHTHALATE) WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. STORAGE TEMPERATURE: -20°C TO +125°C
4. COMPLIANCE TO J-STD:
  - A. J-STD-002: SOLDERABILITY AT 245°C REFLOW PROFILE
  - B. J-STD-020: LEVEL 1, NO MOISTURE SENSITIVE
  - C. J-STD-075: R7, 245°C MAXIMUM THROUGH REFLOW SOLDER
5. TO ORDER TAPE & REEL PACKAGING ADD A "T" SUFFIX TO THE PART NUMBER(i.e H1121FNL BECOMES H1121FNLT).



FINAL OUTLINE

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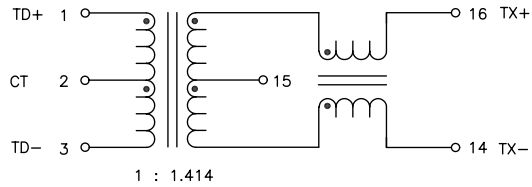
| PRODUCT DESCRIPTION        | TLA DRAWING | PS DRAWING    | SHEET  | PART NO. | DATASHEET REV. |
|----------------------------|-------------|---------------|--------|----------|----------------|
| MDL,SIN,100D,1:1.414,SM,TU | H1121FNL-10 | PS-2005.002-D | 1 OF 3 | H1121FNL | A              |

E-MAIL: PRODINFONETWORK@PULSEELECTRONICS.COM(US), ASIA@PULSEELECTRONICS.COM(Asia)

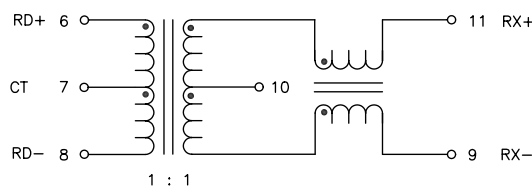
PHONE: USA:858 674 8100, GERMANY:49 7032 78060, SINGAPORE:65 6287 8998, SHANGHAI:86 21 62787060, TAIWAN:886 3 4356768

ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED  
MEETS IEEE 802.3 SPECIFICATION

TRANSMIT



RECEIVE



SCHEMATIC

| PARAMETER                                  | SPECIFICATIONS                            |                                                             |            |
|--------------------------------------------|-------------------------------------------|-------------------------------------------------------------|------------|
| OPERATING TEMPERATURE                      | 0°C – 70 °C                               |                                                             |            |
| TURNS RATIO                                | TX                                        |                                                             | RX         |
|                                            | 1 : 1.414 ±2%                             |                                                             | 1 : 1 ±2%  |
| POLARITY                                   | PER SCHEMATIC                             |                                                             |            |
| INSERTION LOSS                             | 100 KHz                                   | 1–125 MHz                                                   |            |
|                                            | –1.2 dB MAX                               | –0.2–0.002*f <sup>1.4</sup> dB MAX                          |            |
| RETURN LOSS<br>(Z OUT = 100 OHM ±15%)      | .1–30 MHz                                 | 30–60 MHz                                                   | 60–80 MHz  |
|                                            | –16 dB MIN                                | –10+20*LOG <sub>10</sub><br>(f/60 MHz) dB MIN               | –10 dB MIN |
| INDUCTANCE (OCL)<br>(MEDIA SIDE, 0°C–70°C) | 250 uH MIN                                | (MEASURED AT 100 KHz, 100 mVRMS)<br>(AND WITH 8 mA DC BIAS) |            |
| CROSSTALK, ADJACENT<br>CHANNELS            | 1 MHz                                     | 10–100 MHz                                                  |            |
|                                            | –50 dB MIN                                | –50+17*LOG <sub>10</sub> (f/10) dB MIN                      |            |
| DIFFERENTIAL TO<br>COMMON MODE REJECTION   | 5–200 MHz                                 |                                                             |            |
|                                            | –50+17 LOG <sub>10</sub> (f/5 MHz) dB MIN |                                                             |            |
| DC RESISTANCE<br>1/2 WINDING               | .60 OHMS MAX                              |                                                             |            |
| DC RESISTANCE<br>IMBALANCE                 | ±.065 OHMS MAX (CENTER TAP SYMMETRY)      |                                                             |            |
| INPUT – OUTPUT<br>ISOLATION                | 1500 VRMS MIN @ 60 SECONDS                |                                                             |            |

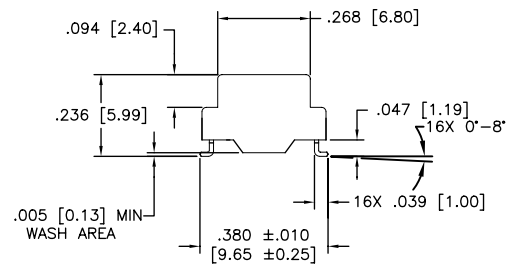
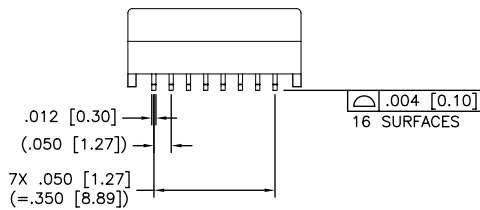
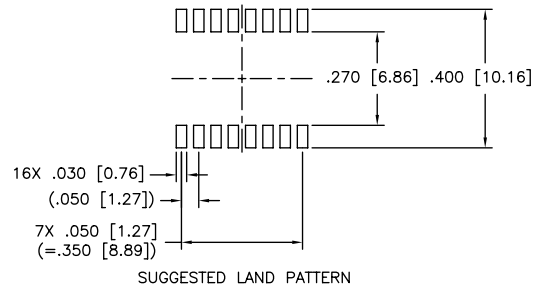
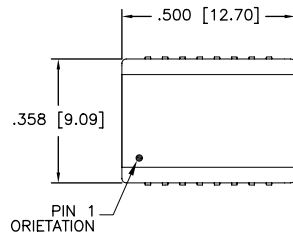
NOTE: f IS FREQUENCY IN MHZ.

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DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.  
.XX= ±.01 [±0.25]  
.XXX= ±.005 [±0.13]

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