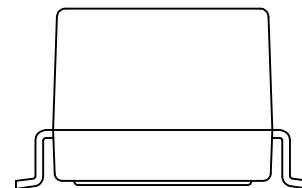
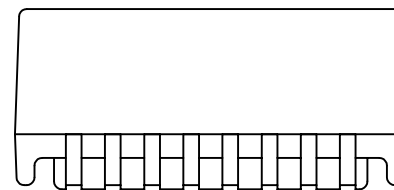
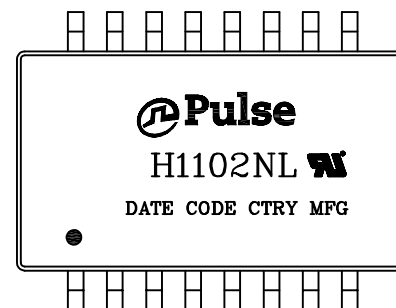


NOTES:

1. ROHS COMPLIANT
2. HEADER: THERMOSET PLASTIC MATERIAL 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 H1102NL BECOMES H1102NLT).

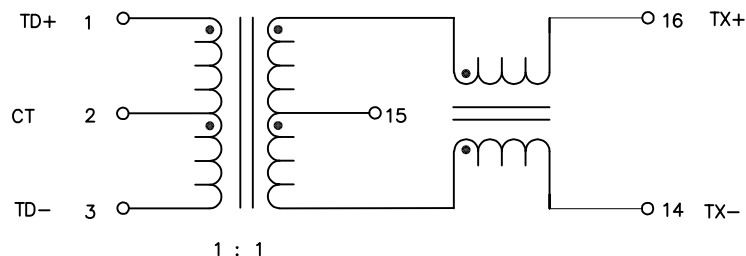


FINAL OUTLINE

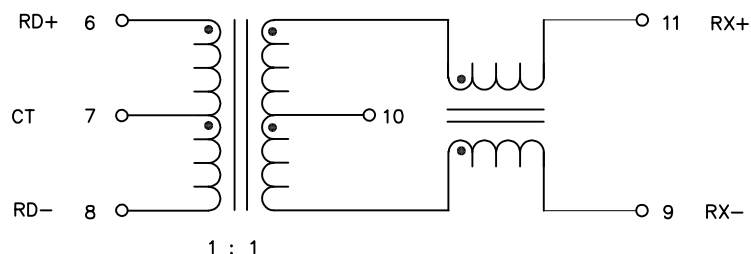
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| PRODUCT DESCRIPTION  | TLA DRAWING | PS DRAWING    | SHEET  | PART NO. | DATASHEET REV. |
|----------------------|-------------|---------------|--------|----------|----------------|
| MDL,SIN,100D,1:1,SMT | H1102NL-24  | PS-2005.001-F | 1 OF 3 | H1102NL  | A              |

TRANSMIT



RECEIVE



SCHEMATIC

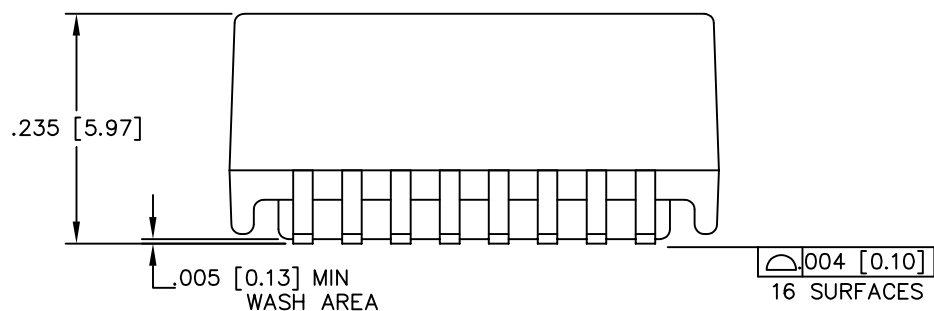
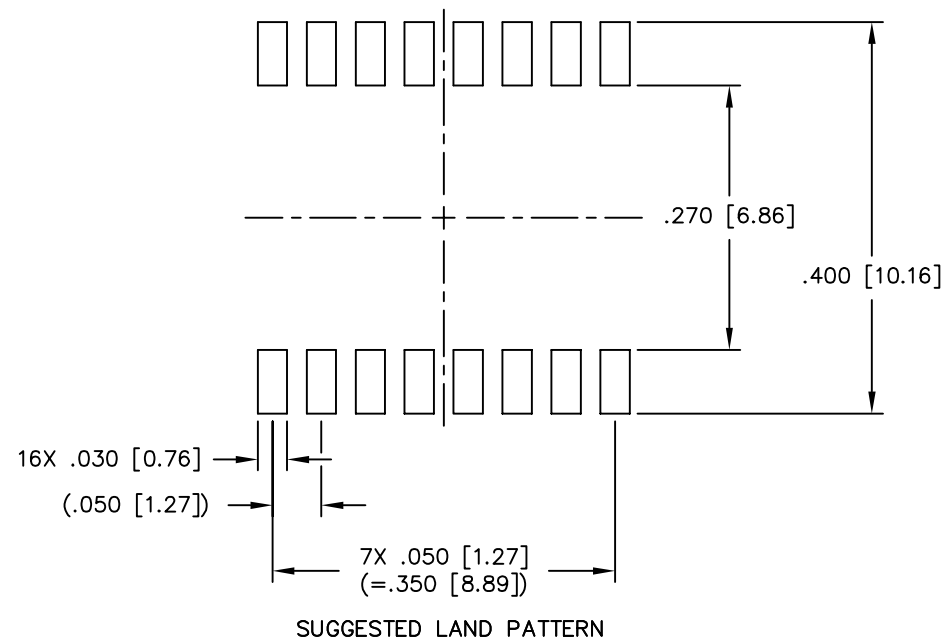
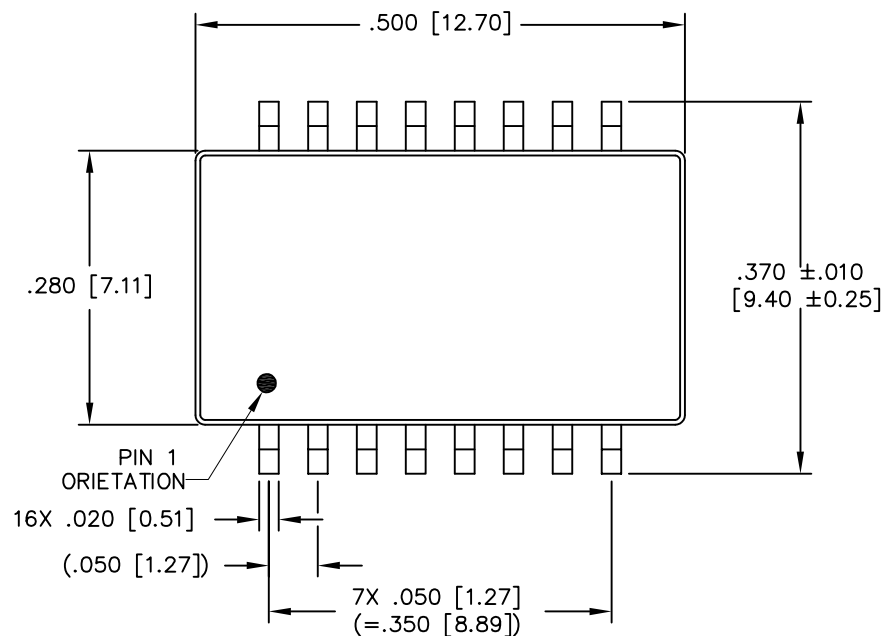
ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED  
MEETS IEEE 802.3 SPECIFICATION

| PARAMETER                                     | SPECIFICATIONS                                                        |                                               |            |            |
|-----------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------|------------|------------|
| OPERATING TEMP                                | 0°C – 70 °C                                                           |                                               |            |            |
| URNS RATIO                                    | 1 : 1 ±2%                                                             |                                               |            |            |
| POLARITY                                      | PER SCHEMATIC                                                         |                                               |            |            |
| INSERTION LOSS                                | 100 KHz – 100 MHz                                                     |                                               |            |            |
|                                               | –1.1 dB MAX                                                           |                                               |            |            |
| RETURN LOSS, 1000BT<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)    | 350 uH MIN ( MEASURED AT 100 KHz, 100 mVRMS)<br>AND WITH 8 mA DC BIAS |                                               |            |            |
| CROSSTALK, ADJACENT<br>CHANNELS               | 1 MHz                                                                 | 30 MHz                                        | 60 MHz     | 100 MHz    |
|                                               | –35 dB MIN                                                            | –35 dB MIN                                    | –30 dB MIN | –30 dB MIN |
| DIFFERENTIAL TO<br>COMMON MODE<br>REJECTION   | 30 MHz                                                                | 60 MHz                                        | 100 MHz    |            |
|                                               | –42 dB MIN                                                            | –37 dB MIN                                    | –30 dB MIN |            |
| DC RESISTANCE,<br>1/2 WINDING                 | .65 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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| MDL,SIN,100D,1:1,SMT | H1102NL–24  | PS–2005.001–F | 2 OF 3 | H1102NL  | A              |



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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| MDL,SIN,100D,1: 1,SMT | H1102NL-24  | PS-2005.001-F | 3 OF 3 | H1102NL  | A              |