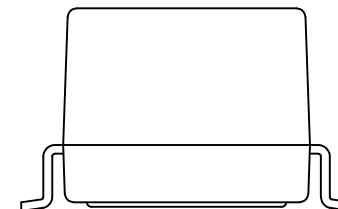
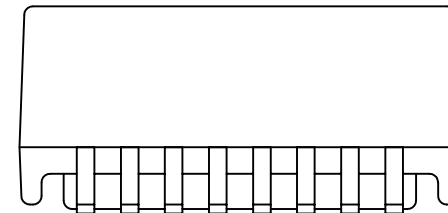


NOTES:

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 H1302NL BECOMES H1302NLT).

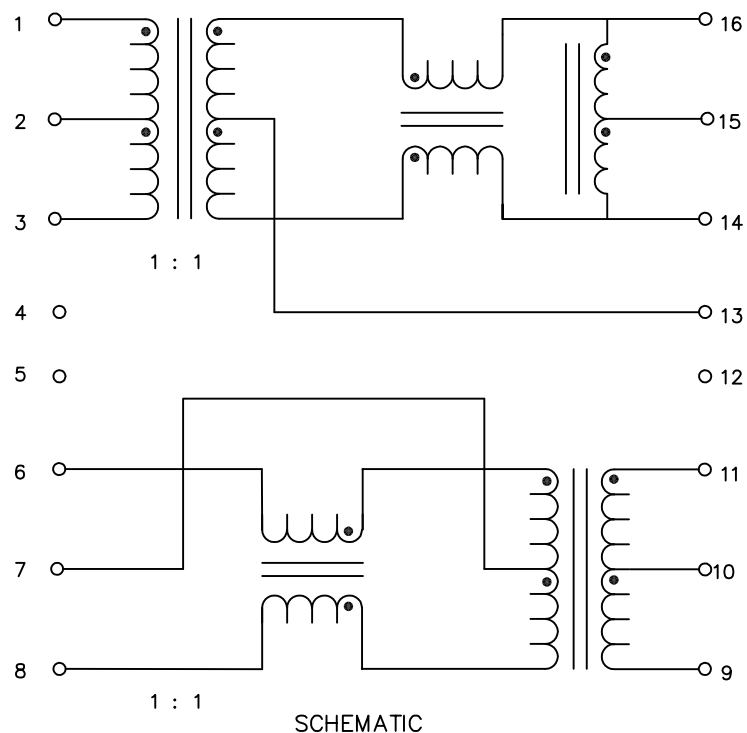


FINAL OUTLINE

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| PRODUCT DESCRIPTION   | TLA DRAWING | PS DRAWING    | SHEET  | PART NO. | DATASHEET REV. |
|-----------------------|-------------|---------------|--------|----------|----------------|
| MDL,SIN,100D,1: 1,SMT | H1302NL-15  | PS-2005.001-F | 1 OF 3 | H1302NL  | A              |

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

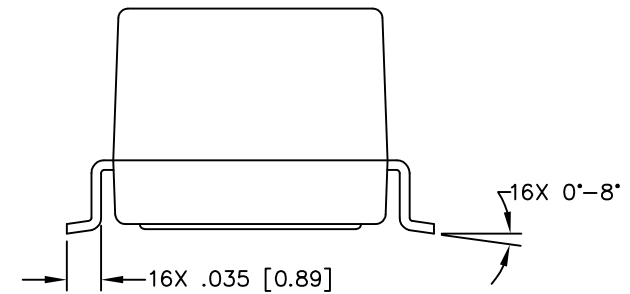
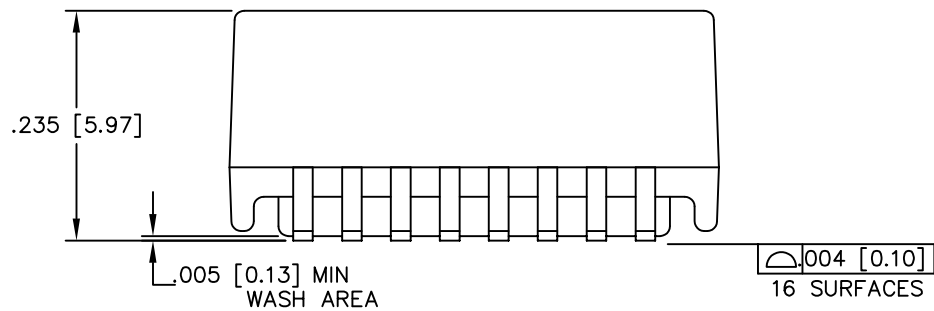
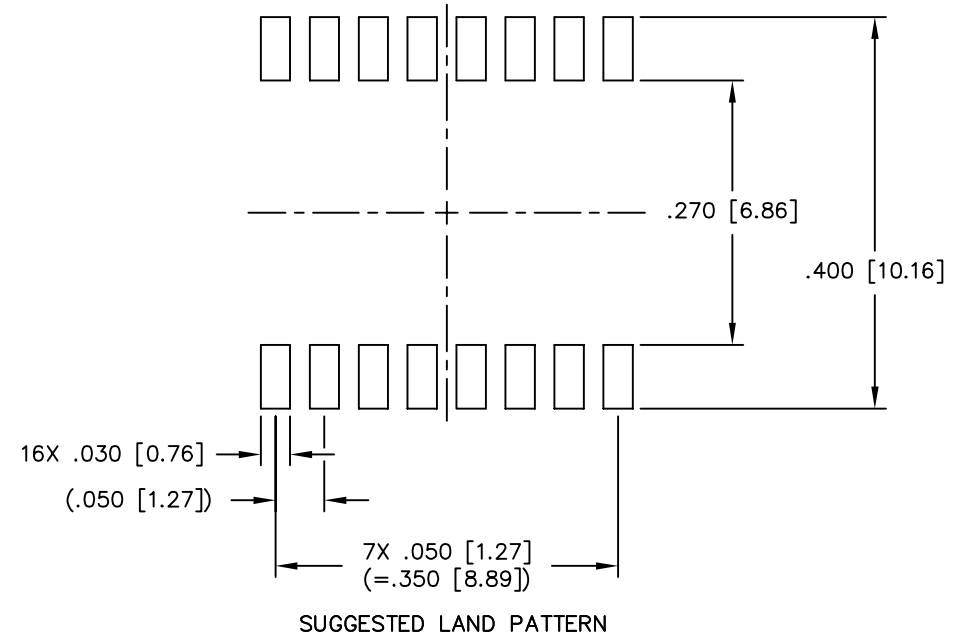
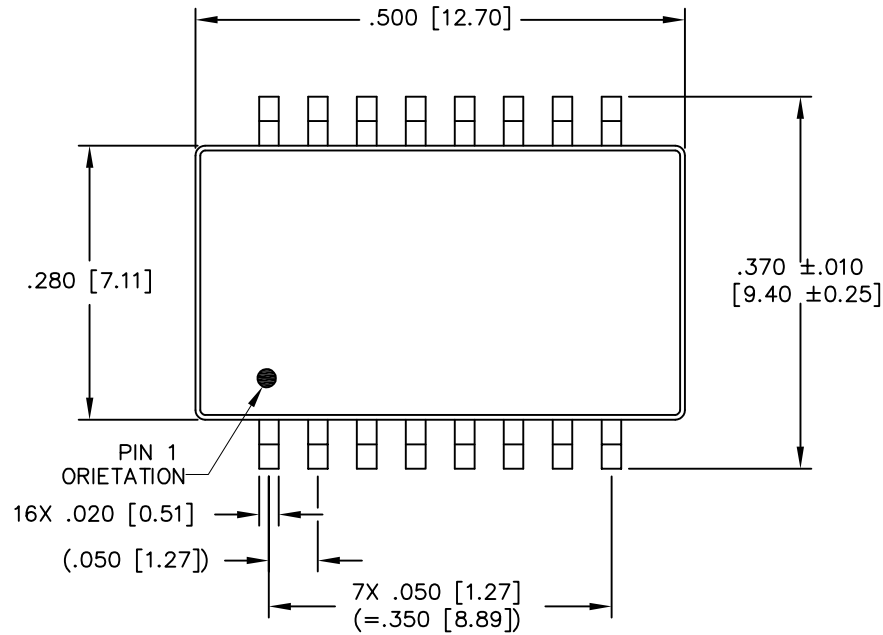


| PARAMETER                                  | SPECIFICATIONS   |   |            |
|--|--|---|------------|
| OPERATING TEMP                             | 0°C – 70 °C  |   |            |
| TURNS RATIO                                | 1 : 1 ±2%  |   |            |
| POLARITY                                   | 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) | 350 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   | -55+22*LOG <sub>10</sub> (f/10) dB MIN        |            |
| COMMON MODE<br>REJECTION RATIO             | 1 MHz  | 30–200 MHz                                    |            |
|  | -42dB MIN  | -15+20*LOG <sub>10</sub> (f/200) 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 | H1302NL-15  | PS-2005.001-F | 2 OF 3 | H1302NL  | 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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| PRODUCT DESCRIPTION   | TLA DRAWING | PS DRAWING    | SHEET  | PART NO. | DATASHEET REV. |
|-----------------------|-------------|---------------|--------|----------|----------------|
| MDL,SIN,100D,1: 1,SMT | H1302NL-15  | PS-2005.001-F | 3 OF 3 | H1302NL  | A              |