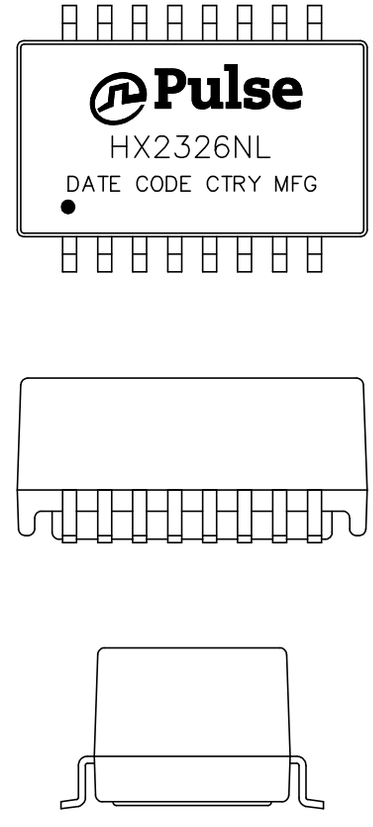
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NOTES:

1. ROHS COMPLIANT
2. HEADER: THERMOSET PLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. STORAGE TEMPERATURE: -50°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 HX2326NL BECOMES HX2326NLT).



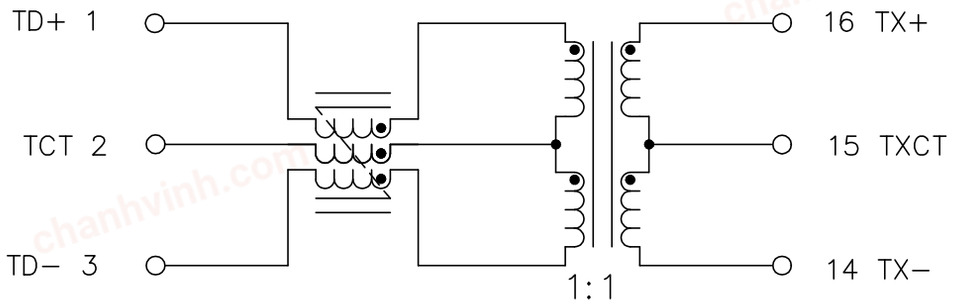

FINAL OUTLINE

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| PRODUCT DESCRIPTION | TLA DRAWING | PS DRAWING | SHEET | PART NO. | DATASHEET REV. |
|---|---|---|---|---|---|
| MDL,SIN,100PP,1:1,SMT | HX2326NL-12 | PS-2005.001-G | 1 OF 3 | HX2326NL | B |

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SCHEMATIC

ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED

MEETS IEEE 802.3 SPECIFICATION

| PARAMETER | SPECIFICATIONS | | |
|---|---|---|---|
| OPERATING TEMP | −40°C TO +85°C | | |
| TURNS RATIO | 1.00 ± 2% | | |
| POLARITY | PER SCHEMATIC | | |
| INSERTION LOSS | 100 KHz | 1−125 MHz | |
| | −1.2 dB MAX | $-0.2-0.002*f^{1.4}$ dB MAX | |
| RETURN LOSS, 1000BT (Z OUT = 100 OHM ±15%) | .1−30 MHz | 30−60 MHz | 60−80 MHz |
| | −16 dB MIN | $-10+20*LOG_{10}$ (f/60 MHz) dB MIN | −10 dB MIN |
| INDUCTANCE (OCL) (MEDIA SIDE, AT 100KHz, 0.1Vac −40°C ~ +85°C) | 350 uH MIN WITH 8mA DC BIAS<br>120 uH MIN WITH 19mA DC BIAS | | |
| CROSSTALK, ADJACENT CHANNELS | 1 MHz | 10−100 MHz | |
| | −50 dB MIN | $-55+22*LOG_{10}(f/10)$ dB MIN | |
| COMMON MODE REJECTION RATIO | 2 MHz | 30−200 MHz | |
| | −45 dB MIN | $-7+28*LOG_{10}(f/200)$ dB MIN | |
| DC RESISTANCE, 1/2 WINDING | .75 OHMS MAX | | |
| DC RESISTANCE IMBALANCE | ±.065 OHMS MAX (CENTER TAP SYMMETRY) | | |
| DC CURRENT/VOLTAGE RATING − PSE PINS | 600 mA, @ 57 V (CONTINUOUS) | | |
| INPUT − OUTPUT ISOLATION | 1500 VRMS MIN AT 60 SECONDS | | |

NOTES: f IS FREQUENCY IN MHz.

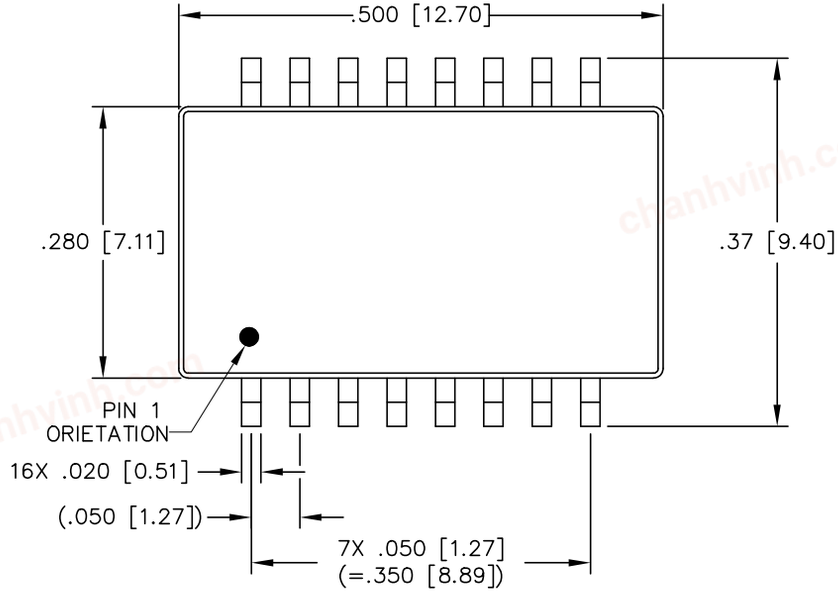
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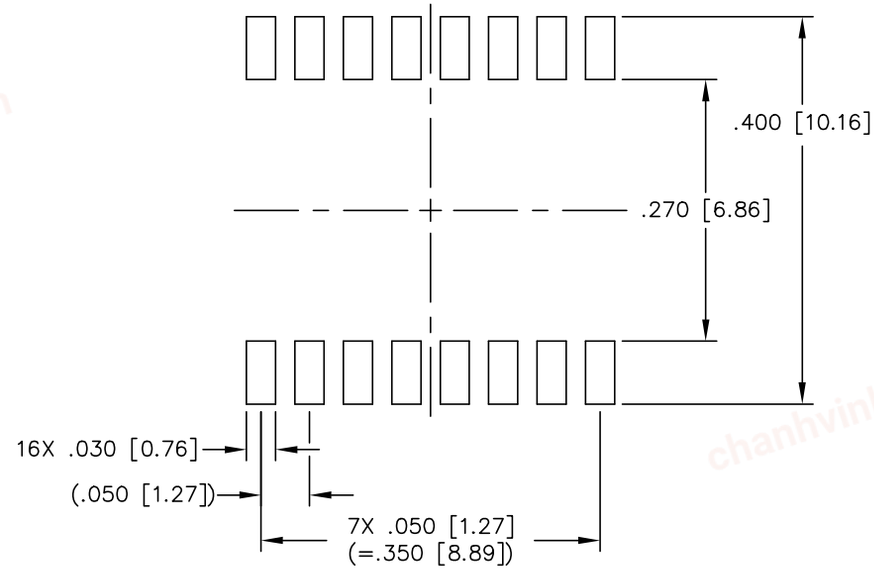


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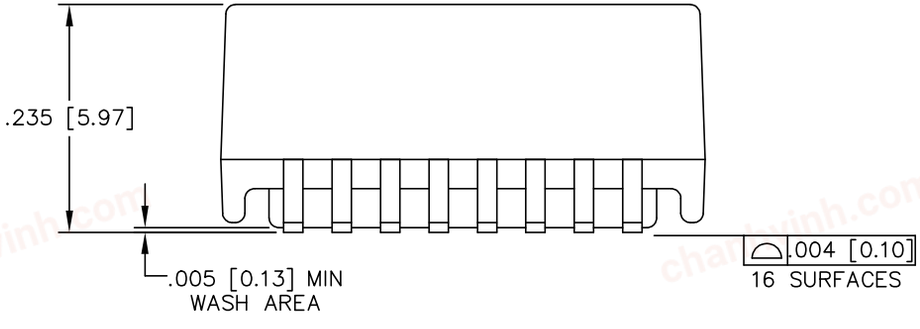
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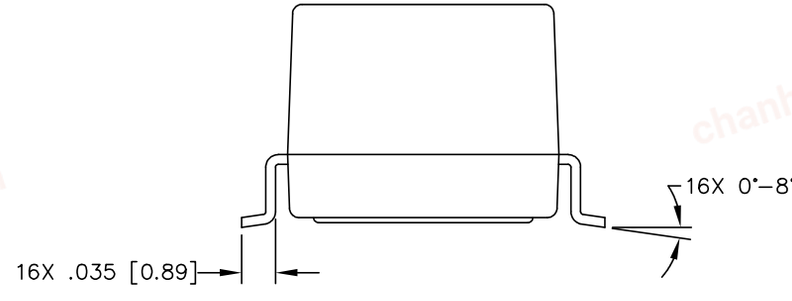
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SUGGESTED LAND PATTERN




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,100PP,1:1,SMT | HX2326NL–12 | PS–2005.001–G | 3 OF 3 | HX2326NL | B |

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