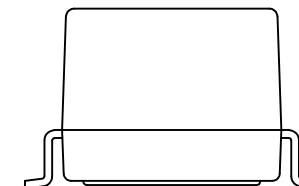
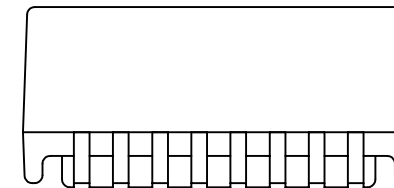


NOTES:

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).



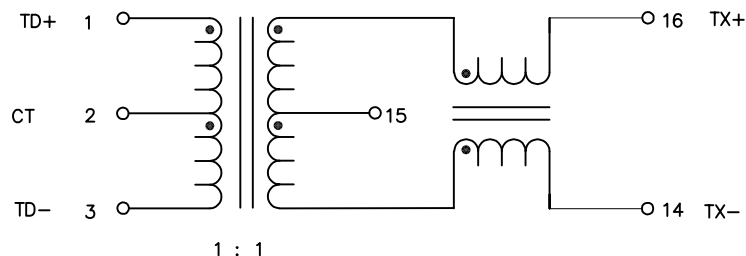
FINAL OUTLINE

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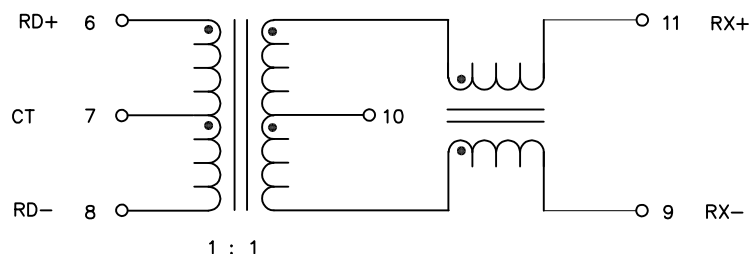
| PRODUCT DESCRIPTION | TLA DRAWING | PS DRAWING | SHEET | PART NO. | DATASHEET REV. |
|----------------------|-------------|---------------|--------|----------|----------------|
| MDL,SIN,100D,1:1,SMT | H1102NL-24 | PS-2005.001-F | 1 OF 3 | H1102NL | A |

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

TRANSMIT



RECEIVE



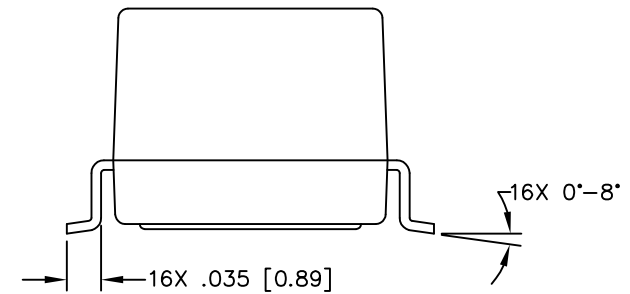
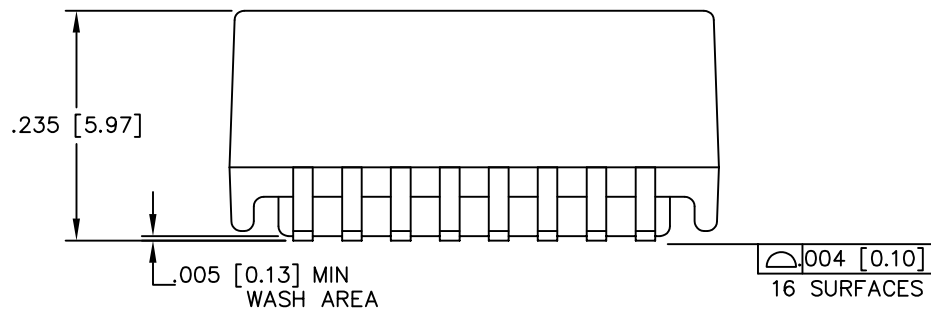
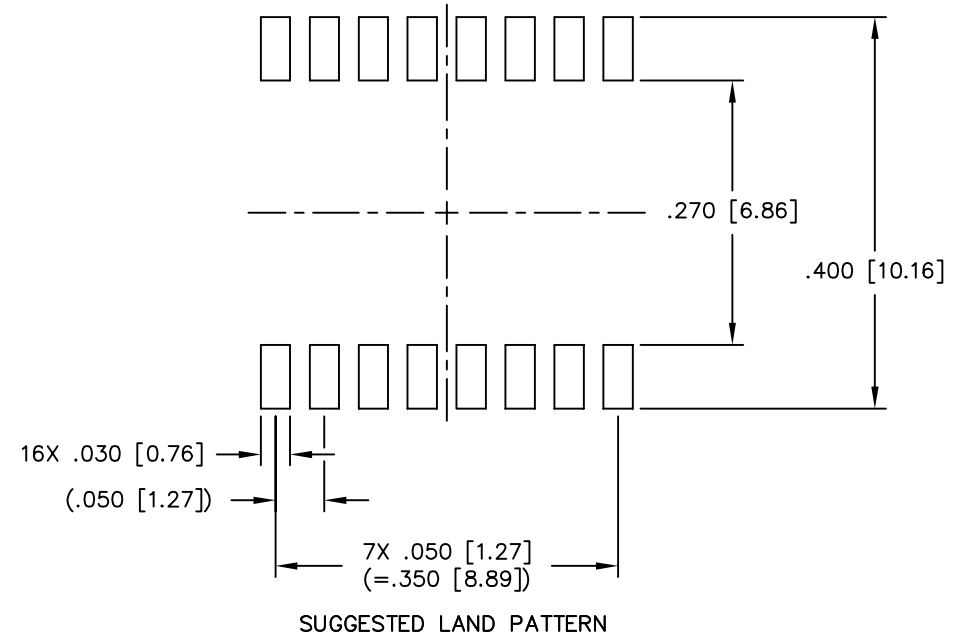
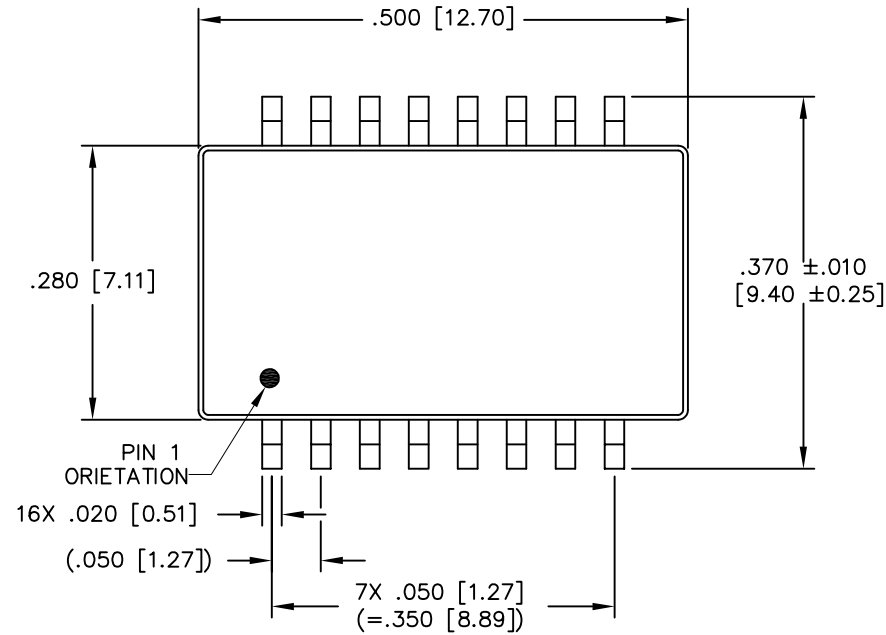
SCHEMATIC

| PARAMETER | SPECIFICATIONS | | | |
|-----------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------|------------|------------|
| OPERATING TEMP | 0°C – 70 °C | | | |
| TURNS RATIO | 1 : 1 ±2% | | | |
| POLARITY | PER SCHEMATIC | | | |
| INSERTION LOSS | 100 KHz – 100 MHz | | | |
| | -1.1 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, 0°C–70°C) | 350 uH MIN (MEASURED AT 100 KHz, 100 mVRMS AND WITH 8 mA DC BIAS) | | | |
| CROSSTALK, ADJACENT CHANNELS | 1 MHz | 30 MHz | 60 MHz | 100 MHz |
| | -35 dB MIN | -35 dB MIN | -30 dB MIN | -30 dB MIN |
| DIFFERENTIAL TO COMMON MODE REJECTION | 30 MHz | | 60 MHz | 100 MHz |
| | -42 dB MIN | | -37 dB MIN | -30 dB MIN |
| DC RESISTANCE, 1/2 WINDING | .65 OHMS MAX | | | |
| DC RESISTANCE IMBALANCE | ±.065 OHMS MAX (CENTER TAP SYMMETRY) | | | |
| INPUT – OUTPUT 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 |

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