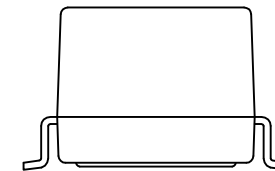
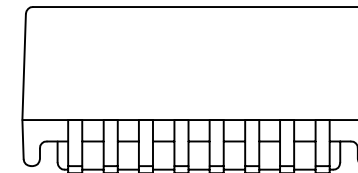
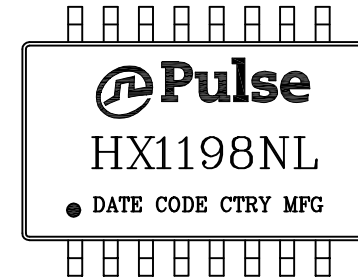


NOTES:

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 HX1198NL BECOMES HX1198NLT).

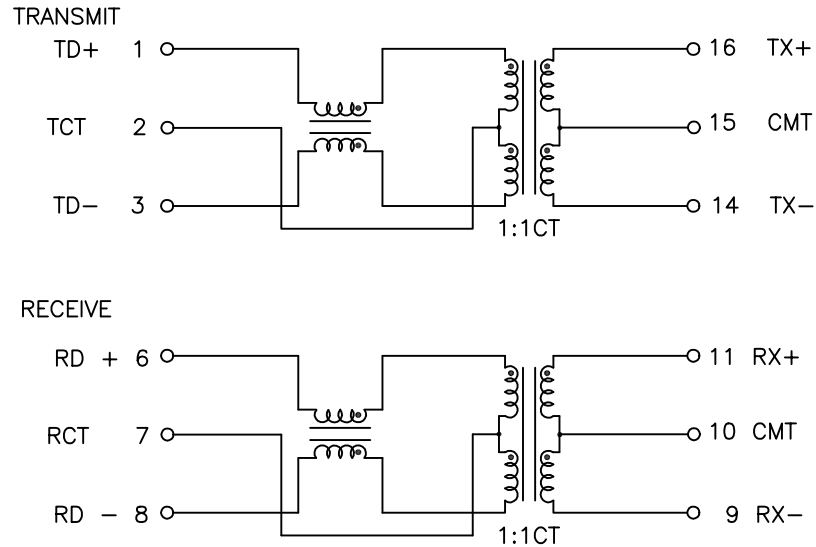


FINAL OUTLINE

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| PRODUCT DESCRIPTION | TLA DRAWING | PS DRAWING | SHEET | PART NO. | DATASHEET REV. |
|----------------------|-------------|---------------|--------|----------|----------------|
| MDL,SIN,100D,1:1,SMT | HX1198NL-12 | PS-2005.001-F | 1 OF 3 | HX1198NL | A |

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



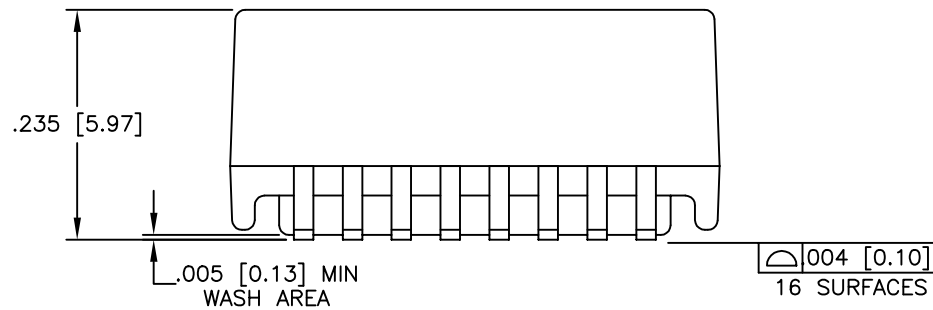
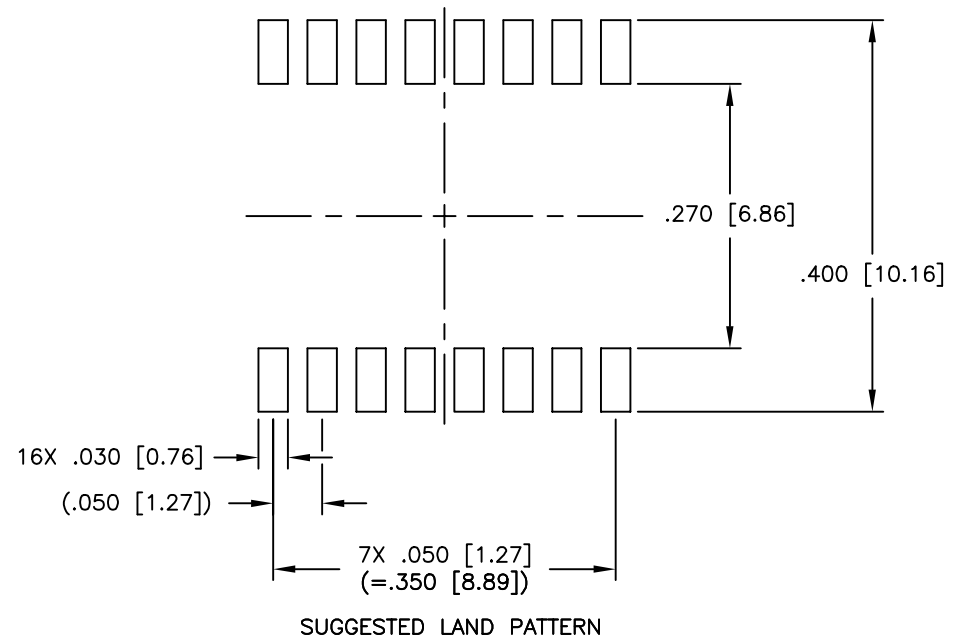
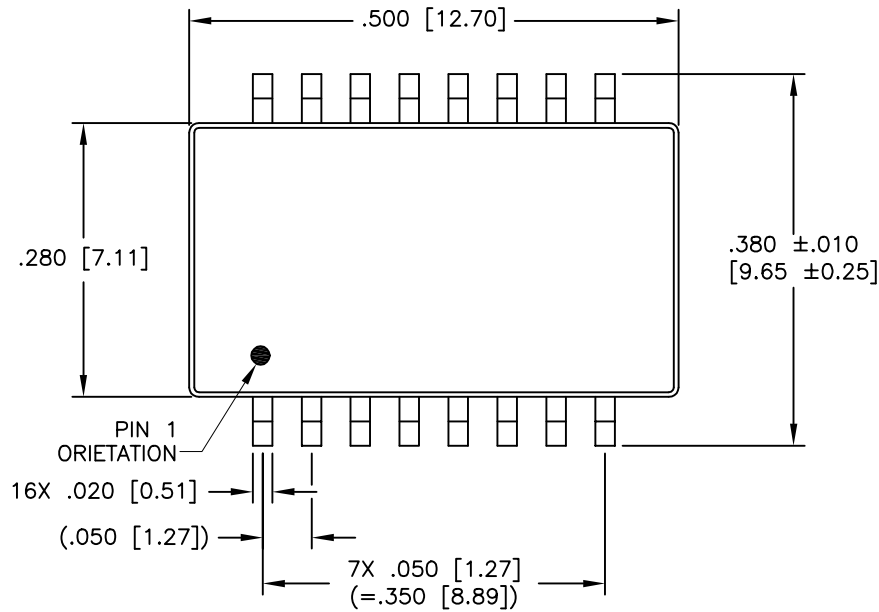
SCHEMATIC

| PARAMETER | SPECIFICATIONS | |
|-------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------|
| OPERATING TEMP | -40°C ~ +85°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 ^{1.4} dB MAX |
| RETURN LOSS (Z OUT = 100 OHM±15%) | 5MHz | 30-80MHz |
| | -18 dB MIN | -16 + 26LOG ₁₀ (f/30MHz) dB MIN |
| INDUCTANCE (OCL) (MEDIA SIDE, -40°C ~ +85°C) | 350 uH MIN (MEASURED AT 100 KHz, 100 mVRMS) (AND WITH 8 mA DC BIAS) | |
| CROSSTALK (TX-RX) | 1 MHz | 5-100MHz |
| | -62 dB MIN | -45 + 21LOG ₁₀ (f/30MHz) dB MIN |
| DIFFERENTIAL TO COMMON MODE REJECTION | 5-200MHz | |
| | -50+17LOG ₁₀ (f/5MHz) dB MIN | |
| ISOLATION (INPUT - OUTPUT) | 1500 VRMS MIN @ 60 SECONDS | |

NOTE: f IS FREQUENCY IN MHz.

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| MDL,SIN,100D,1:1,SMT | HX1198NL-12 | PS-2005.001-F | 2 OF 3 | HX1198NL | 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 | HX1198NL-12 | PS-2005.001-F | 3 OF 3 | HX1198NL | A |