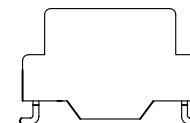
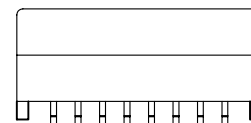
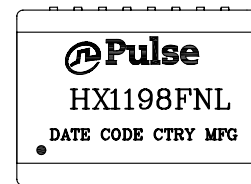


NOTES:

1. ROHS COMPLIANT
2. HEADER: DAP (DIALLYL PHTHALATE) 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 HX1198FNL BECOMES HX1198FNLT).

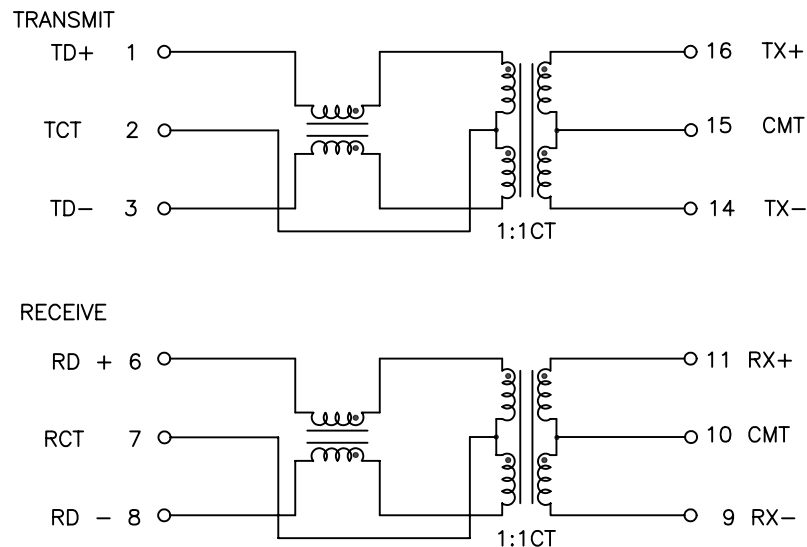


FINAL OUTLINE

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| PRODUCT DESCRIPTION    | TLA DRAWING  | PS DRAWING    | SHEET  | PART NO.  | DATASHEET REV. |
|------------------------|--------------|---------------|--------|-----------|----------------|
| MDL,SIN,100D,1:1,SM,TU | HX1198FNL-13 | PS-2005.002-D | 1 OF 3 | HX1198FNL | A              |

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



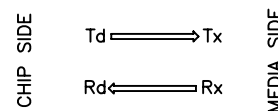
SCHEMATIC

NO CONNECT: PINS 4, 5, 12, AND 13.

| PARAMETER                                       | SPECIFICATIONS   |  |
|---|--|--|
| OPERATING TEMPERATURE                           | -40°C ~ +85°C  |  |
| URNS 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%)            | 5MHz   | 30-80MHz                                   |
|   | -18 dB MIN   | -16 + 26LOG <sub>10</sub> (f/30MHz) dB MIN |
| INDUCTANCE (OCL)<br>(MEDIA SIDE, -40°C ~ +85°C) | 350 uH MIN (MEASURED AT 100 KHz, 100 mVRMS<br>AND WITH 8 mA DC BIAS) |  |
| CROSSTALK<br>(TX-RX)                            | 1 MHz  | 5-100MHz                                   |
|   | -62 dB MIN   | -45 + 21LOG <sub>10</sub> (f/30MHz) dB MIN |
| DIFFERENTIAL TO<br>COMMON MODE REJECTION        | 5-200MHz   |  |
|   | -50+17LOG <sub>10</sub> (f/5MHz) dB MIN                              |  |
| ISOLATION<br>(INPUT - OUTPUT)                   | 1500 VRMS MIN @ 60 SECONDS   |  |

NOTE: f IS FREQUENCY IN MHZ.

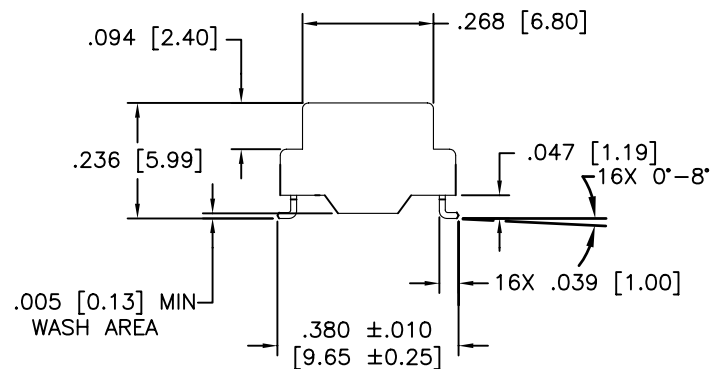
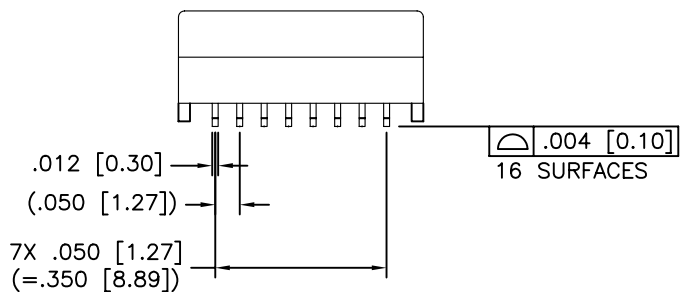
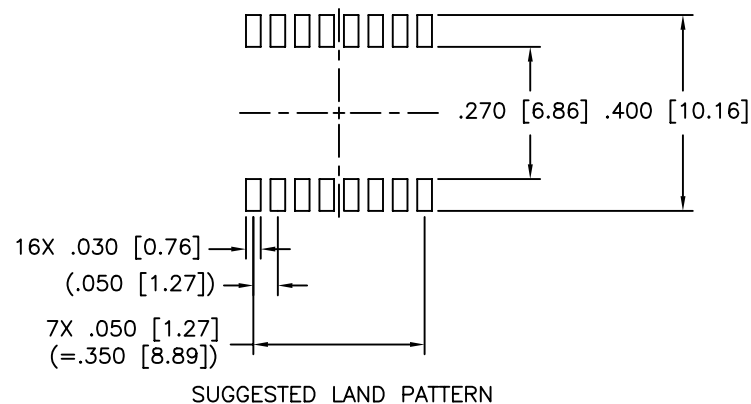
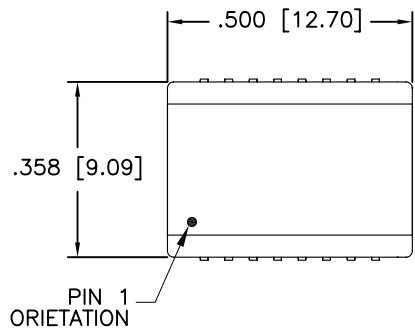
LEGEND



ALL CHANNELS IN  
PHASE INPUT TO  
OUTPUT

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|------------------------|--------------|---------------|--------|-----------|----------------|
| MDL,SIN,100D,1:1,SM,TU | HX1198FNL-13 | PS-2005.002-D | 2 OF 3 | HX1198FNL | 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,SM,TU | HX1198FNL-13 | PS-2005.002-D | 3 OF 3 | HX1198FNL | A              |