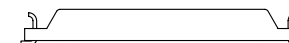
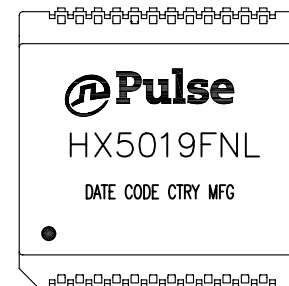


NOTES:

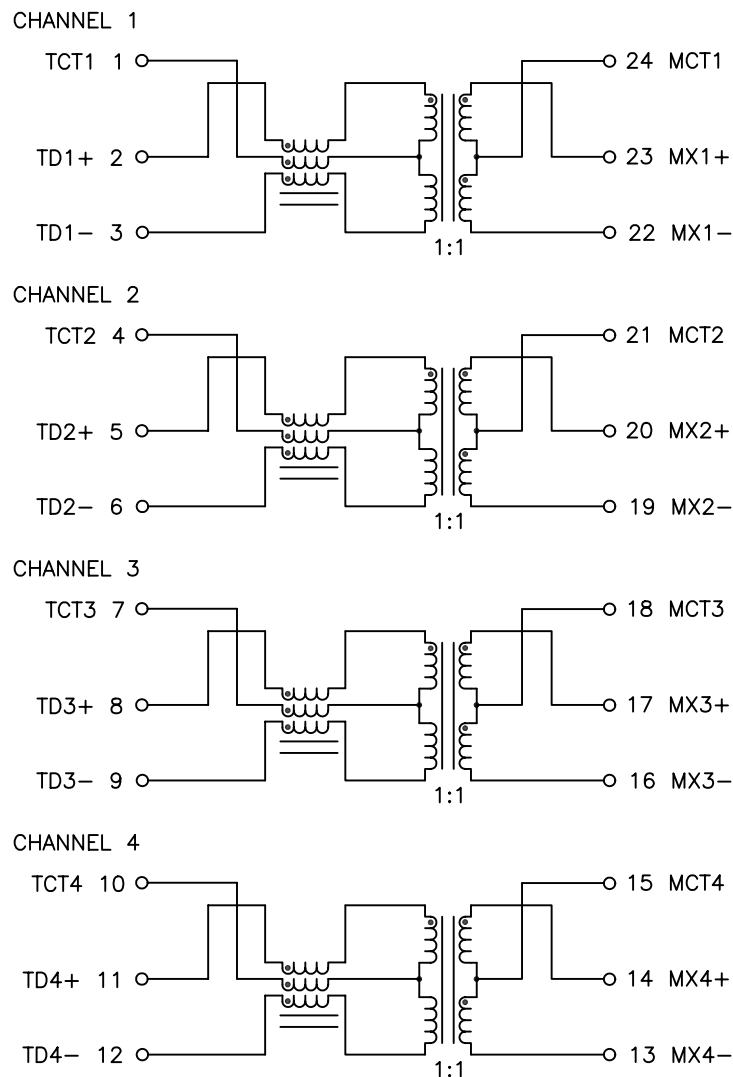
1. ROHS COMPLIANT
2. HEADER: DAP (DIALLYL PHTHALATE) WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. STORAGE TEMPERATURE: -50°C TO +125°C
4. COMPLIANCE TO J-STD:
  - A. J-STD-002: SOLDERABILITY AT 245°C REFLOW PROFILE
  - B. J-STD-020: LEVEL 1, NO MOISTURE SENSITIVE
  - C. J-STD-075: R7, 245°C MAXIMUM THROUGH REFLOW SOLDER
5. TO ORDER TAPE & REEL PACKAGING ADD A "T" SUFFIX TO THE PART NUMBER(i.e HX5019FNL BECOMES HX5019FNLT).



FINAL OUTLINE

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| PRODUCT DESCRIPTION   | TLA DRAWING  | PS DRAWING    | SHEET  | PART NO.  | DATASHEET REV. |
|-----------------------|--------------|---------------|--------|-----------|----------------|
| MDL,SIN,1GD,1:1,SM,TU | HX5019FNL-10 | PS-2761.001-A | 1 OF 3 | HX5019FNL | A              |



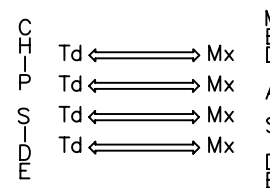
SCHEMATIC

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

| PARAMETER                                   | SPECIFICATIONS   |  |  |
|---|--|--|--|
| OPERATING TEMP                              | -40°C ~ +85°C  |  |  |
| TURNS RATIO                                 | 1.00 ± 2%  |  |  |
| POLARITY                                    | PER SCHEMATIC  |  |  |
| INDUCTANCE (OCL)<br>(MEDIA SIDE, -40~+85°C) | 350 uH MIN (MEASURED AT 100 KHz, 100 mVRMS)<br>WITH 8 mA DC BIAS |  |  |
| INSERTION LOSS                              | 100 KHz  | 1-100 MHz                              | 125 MHz                                |
|   | -1.2 dB MAX  | -1.0 dB MAX                            | -3.0 dB MAX                            |
| RETURN LOSS<br>(Z OUT = 100 OHM ±15%)       | 1-40 MHz   |  | 40-100 MHz                             |
|   | -16 dB MIN   | -18 dB MIN<br>(ZOUT=100 OHMS)          | -10+20*LOG <sub>10</sub> (f/80) dB MIN |
| CROSSTALK                                   | 1 MHz  | 30-100 MHz                             |  |
|   | -50 dB MIN   | -55+24*LOG <sub>10</sub> (f/10) dB MIN |  |
| DIFFERENTIAL TO COMMON<br>MODE REJECTION    | 2 MHz  | 30-100 MHz                             |  |
|   | -50 dB MIN   | -43+22*LOG <sub>10</sub> (f/30) dB MIN |  |
| INPUT - OUTPUT<br>ISOLATION                 | 1500 VRMS @ 60 SECONDS   |  |  |

NOTE: f IS FREQUENCY IN MHZ.

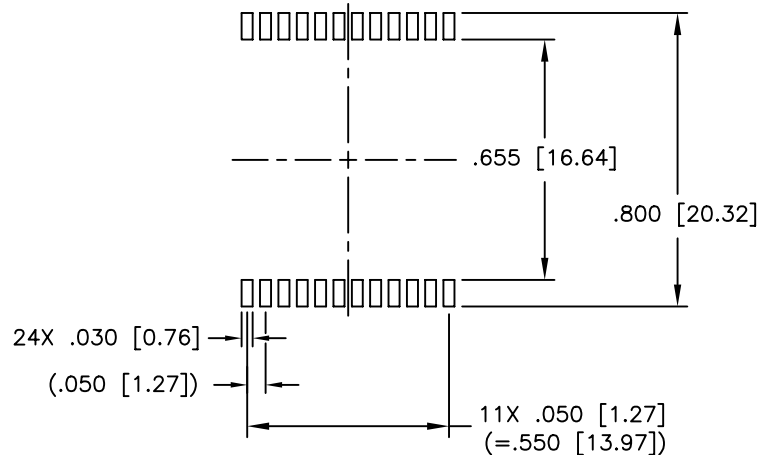
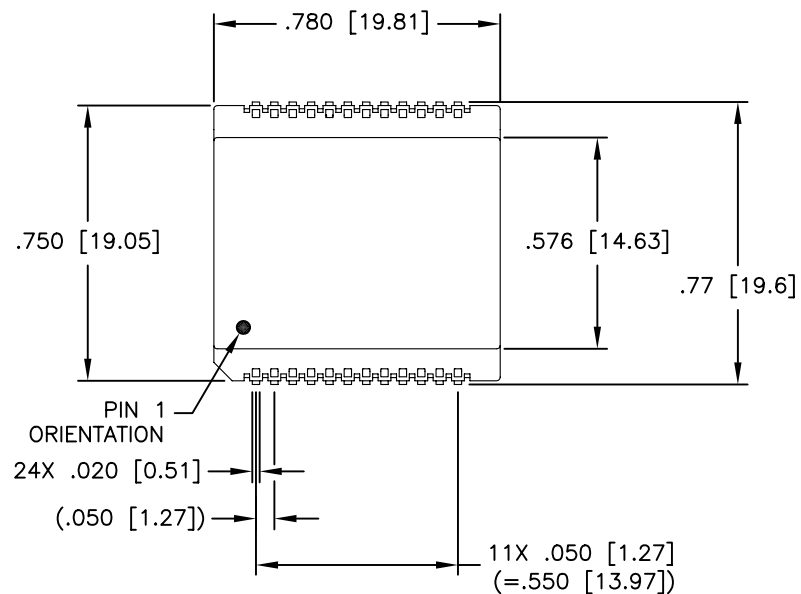
LEGEND



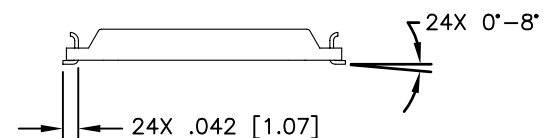
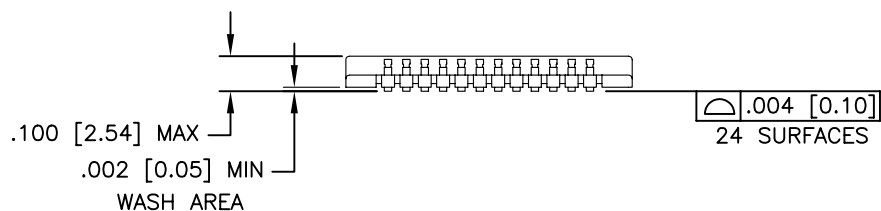
ALL CHANNELS ARE  
IN PHASE BETWEEN  
INPUT AND OUTPUT

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|-----------------------|--------------|---------------|--------|-----------|----------------|
| MDL,SIN,1GD,1:1,SM,TU | HX5019FNL-10 | PS-2761.001-A | 2 OF 3 | HX5019FNL | A              |



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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| PRODUCT DESCRIPTION   | TLA DRAWING  | PS DRAWING    | SHEET  | PART NO.  | DATASHEET REV. |
|-----------------------|--------------|---------------|--------|-----------|----------------|
| MDL,SIN,1GD,1:1,SM,TU | HX5019FNL-10 | PS-2761.001-A | 3 OF 3 | HX5019FNL | A              |