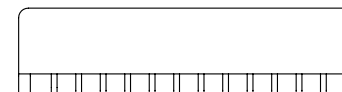
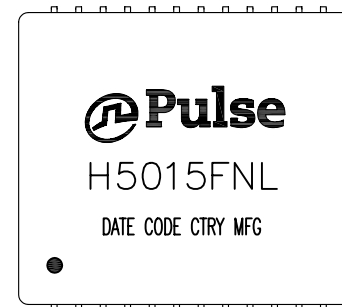


NOTES:

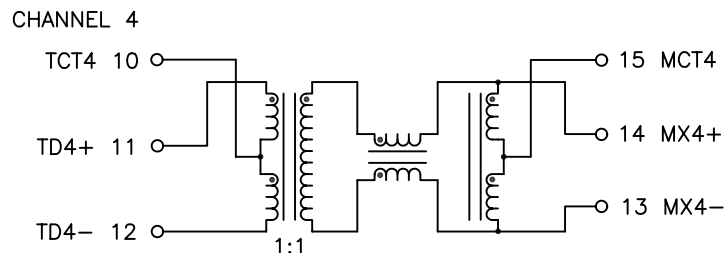
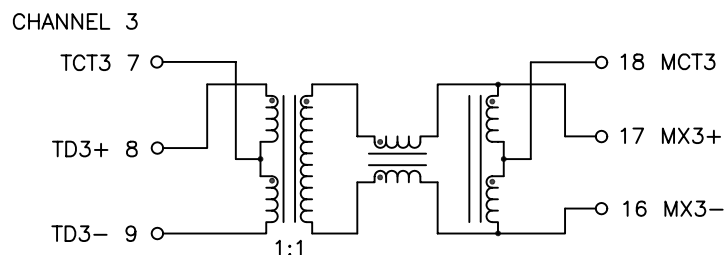
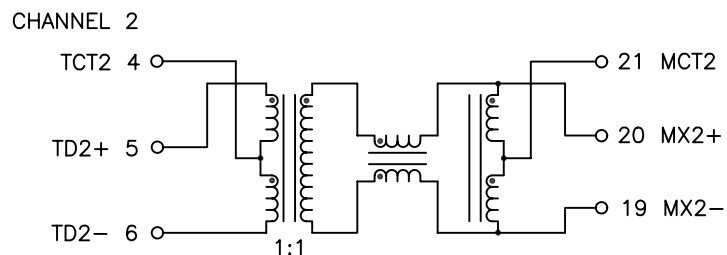
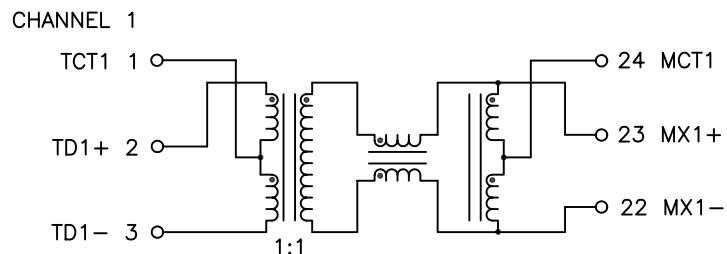
1. ROHS COMPLIANT
2. HEADER: PHENOLIC WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. STORAGE TEMPERATURE: -20°C TO +125°C
4. COMPLIANCE TO J-STD:
  - A. J-STD-002: SOLDERABILITY AT 245°C REFLOW PROFILE
  - B. J-STD-020: LEVEL 1, NO MOISTURE SENSITIVE
  - C. J-STD-075: R7, 245°C MAXIMUM THROUGH REFLOW SOLDER
5. TO ORDER TAPE & REEL PACKAGING ADD A "T" SUFFIX TO THE PART NUMBER(i.e H5015FNL BECOMES H5015FNLT).



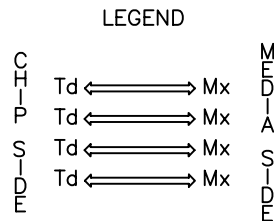
FINAL OUTLINE

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| PRODUCT DESCRIPTION   | TLA DRAWING | PS DRAWING    | SHEET  | PART NO. | DATASHEET REV. |
|-----------------------|-------------|---------------|--------|----------|----------------|
| MDL,SIN,1GD,1:1,SM,TU | H5015FNL-10 | PS-2754.001-A | 1 OF 3 | H5015FNL | A              |



SCHEMATIC



ALL CHANNELS ARE IN PHASE BETWEEN INPUT AND OUTPUT

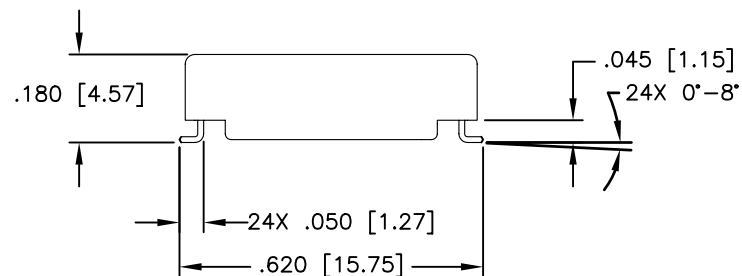
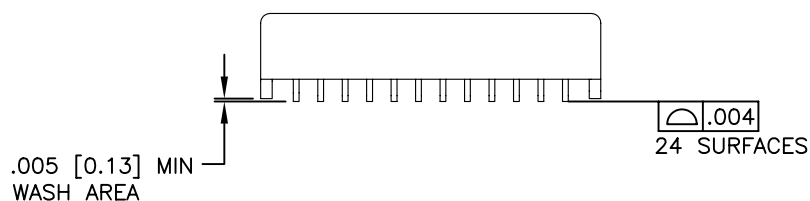
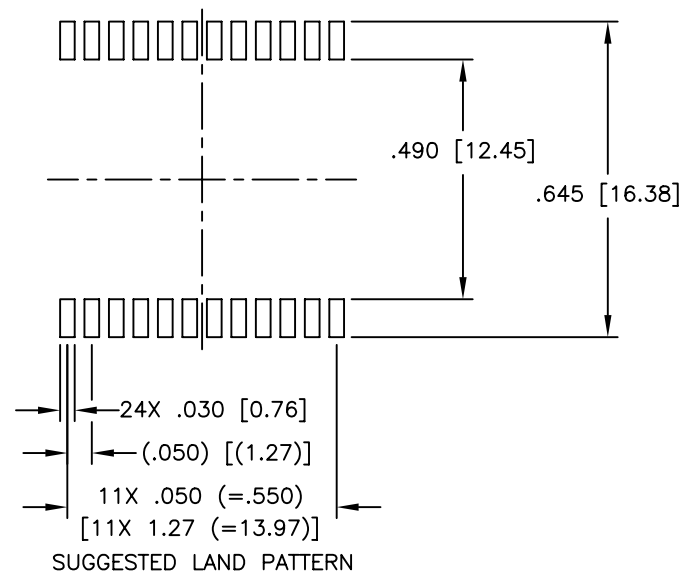
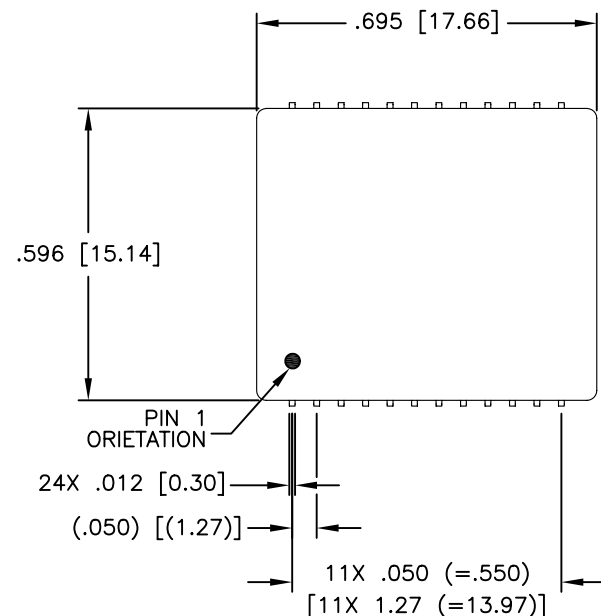
ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED  
MEETS IEEE 802.3 SPECIFICATION

| PARAMETER                                | SPECIFICATIONS                             |  |             |
|--|--|--|-------------|
| OPERATING TEMP                           | 0°C - 70 °C                                |  |             |
| TURNS RATIO                              | 1.00 ± 2%                                  |  |             |
| POLARITY                                 | PER SCHEMATIC                              |  |             |
| OCL, TRANSMIT CHANNEL                    | 350 uH MIN. WITH 8 mA DC BIAS, -0 TO 70 °C |  |             |
| 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                                 | -10+20*LOG <sub>10</sub> (f/80) dB MIN |             |
| CROSSTALK (TX-RX)                        | 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 ISOLATION                 | 1500 VRMS MIN                              |  |             |

NOTE: f IS FREQUENCY IN MHZ.

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|-----------------------|-------------|---------------|--------|----------|----------------|
| MDL,SIN,1GD,1:1,SM,TU | H5015FNL-10 | PS-2754.001-A | 2 OF 3 | H5015FNL | 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,1GD,1:1,SM,TU | H5015FNL-10 | PS-2754.001-A | 3 OF 3 | H5015FNL | A              |

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[B78476A9558A003](#) [1812WBT2-4](#) [1879479-1](#) [HX2260FNL](#) [HX5014FNL](#) [EX2024FNL](#) [FL1066](#) [T1137NLT](#) [T3012NL](#) [PE-65812FNL](#) [PE-65848FNLT](#) [H1174FNL](#) [H1302FNL](#) [H5015FNL](#) [H5019EFNL](#) [H5062FNLT](#) [CX2047LNL](#) [MGPWT-00059-P](#) [MGPWT-00266-P](#) [MGPWT-00278-P](#) [MGPWT-00431-P](#) [TTC-100](#) [TTC-143-H](#) [TTC-5032-1](#) [BX1194WNLT](#) [HX1234NLT](#) [HX5008FNLT](#) [HX5019FNL](#) [HX5084NL](#) [3-1879385-5](#) [TX1263NLT](#) [4-1879391-0](#) [T1142NL](#) [HX6101FNL](#) [HX5084FNL](#) [HX1148NL](#) [HX5020FNLT](#) [HX5014FNLT](#) [T1124NL](#)  
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