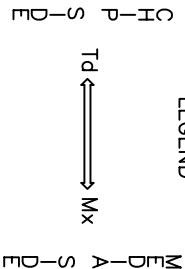


ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED  
MEETS IEEE 802.3 SPECIFICATION

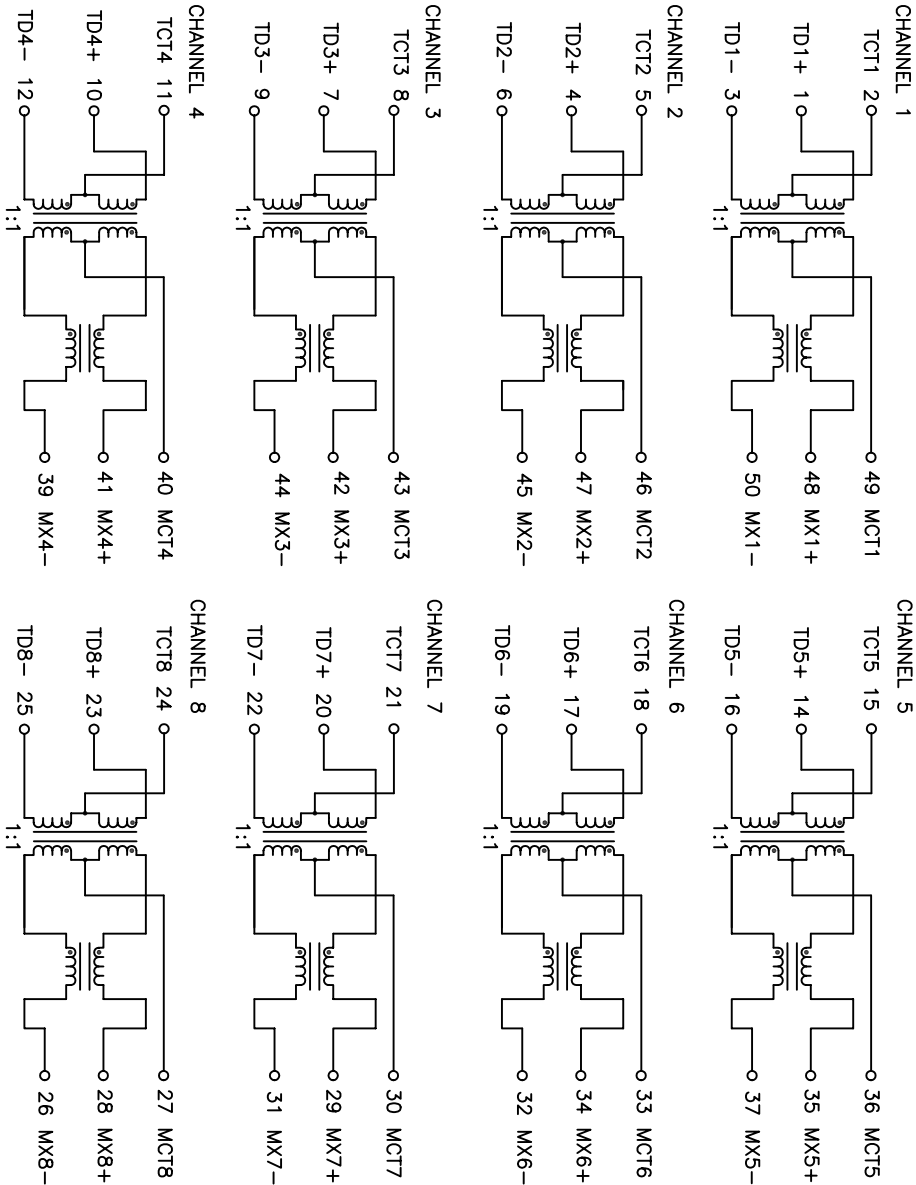
| PARAMETER                                      | SPECIFICATIONS                                                                      |                                            |
|------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------|
| OPERATING TEMPERATURE                          | -40°C ~ +85°C                                                                       |                                            |
| TURNS RATIO                                    | 1.00 ± 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%)          | .1-40 MHz                                                                           | 40-100 MHz                                 |
|                                                | -16 dB MIN                                                                          | -10+20*LOG <sub>10</sub> (f/80 MHz) dB MIN |
| INDUCTANCE (OCL)<br>(MEDIA SIDE, -40°C, +85°C) | 350 uH MIN (MEASURED AT 100 KHz, 100 mV <sub>RMS</sub> )<br>(AND WITH 8 mA DC BIAS) |                                            |
| CROSSTALK, ADJACENT CHANNELS                   | 1 MHz                                                                               | 10-100 MHz                                 |
|                                                | -50 dB MIN                                                                          | -55+22*LOG <sub>10</sub> (f/10) dB MIN     |
| COMMON MODE REJECTION RATIO                    | 2 MHz                                                                               | 30-200 MHz                                 |
|                                                | -50 dB MIN                                                                          | -15+20*LOG <sub>10</sub> (f/200) 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.

LEGEND



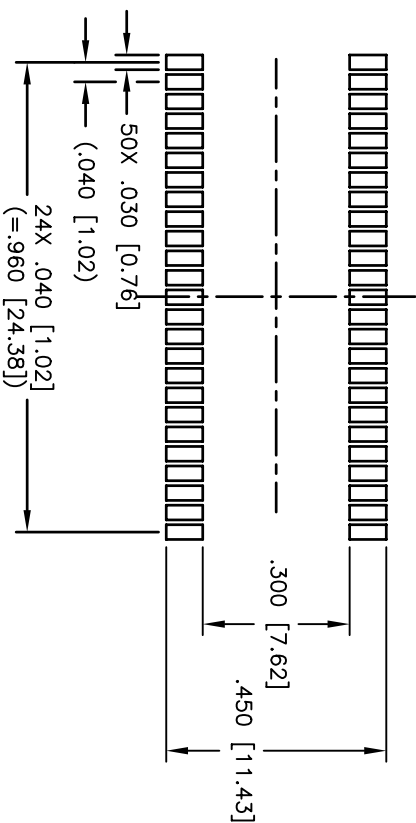
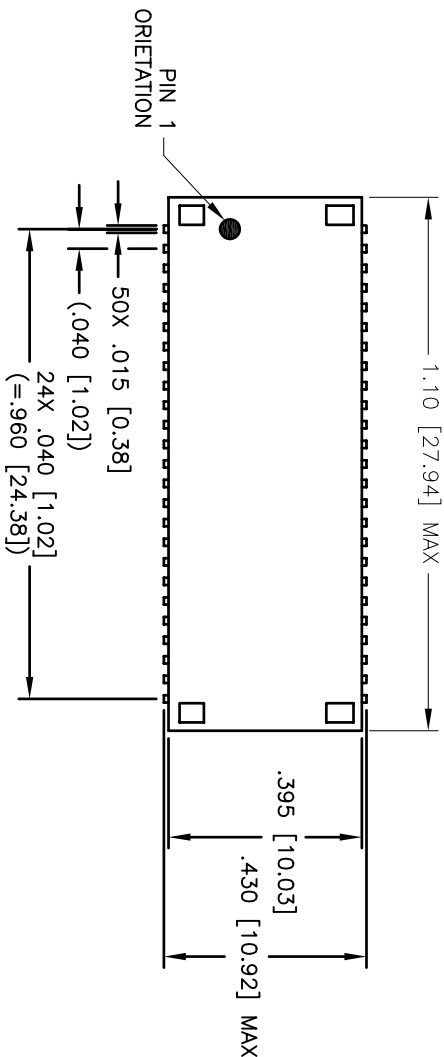
ALL CHANNELS ARE IN-PHASE BETWEEN INPUT AND OUTPUT



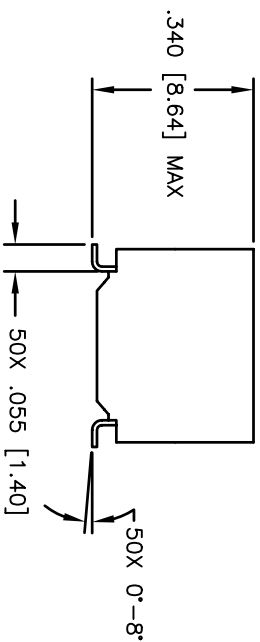
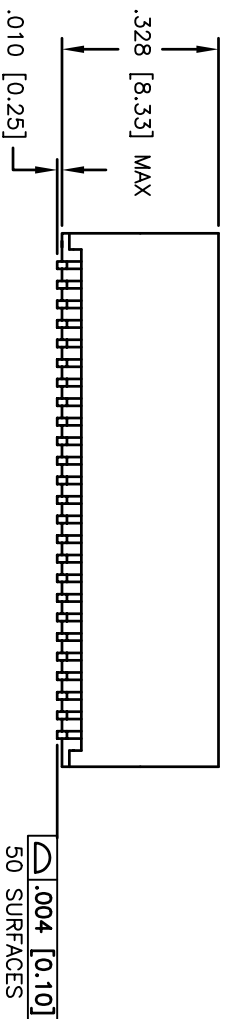
SCHEMATIC

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| PRODUCT DESCRIPTION   | TLA DRAWING  | PS DRAWING    | SHEET  | PART NO.  | DATSHEET REV. |
|-----------------------|--------------|---------------|--------|-----------|---------------|
| MDL,DUL,1GD,1:1,SM,TU | HX5020FNL-10 | PS-2749.001-A | 2 OF 3 | HX5020FNL | 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,DUL,1GD,1:1,SM,TU | HX5020FNL-10 | PS-2749.001-A | 3 OF 3 | HX5020FNL | A              |