
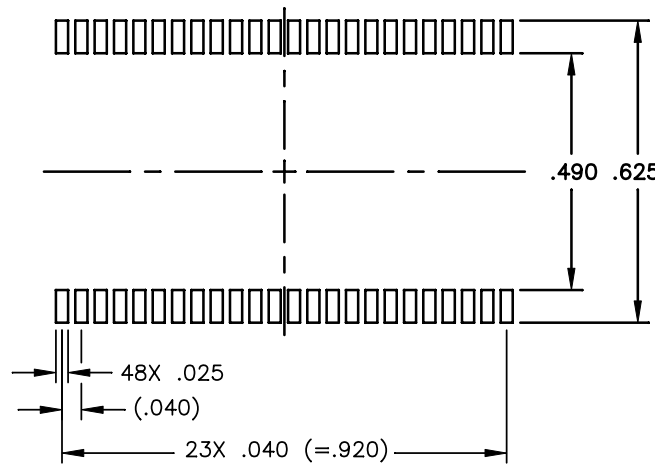
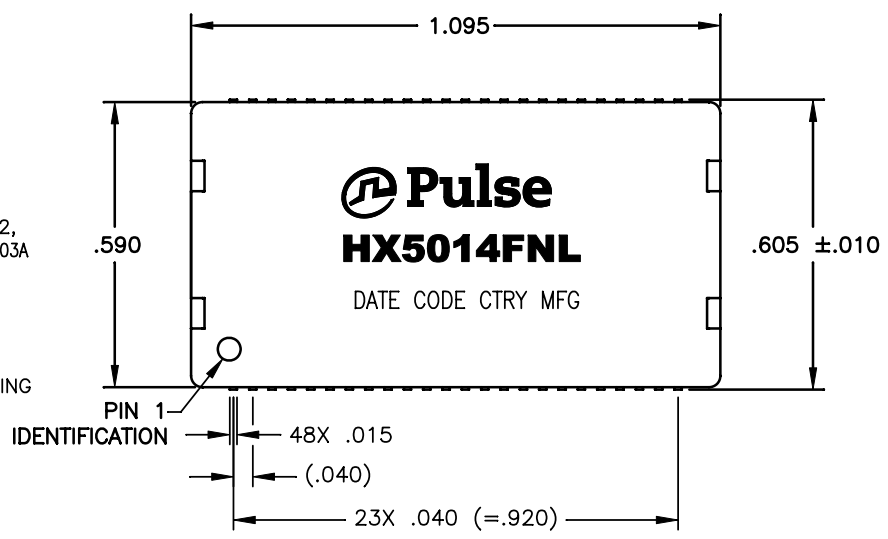


NOTES: UNLESS OTHERWISE SPECIFIED

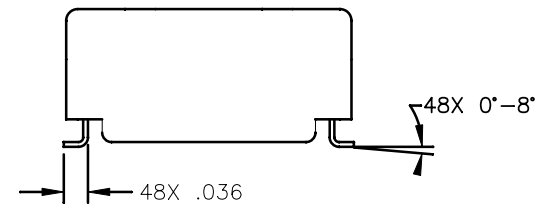
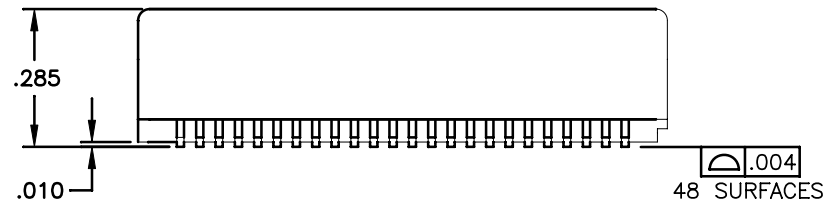
1. 

|         |  |
|---------|--|
| NOTICE: | THIS IS A RoHS COMPLIANT COMPONENT/PRODUCT. ALL ENGINEERING CHANGES MUST HAVE PRIOR APPROVAL BY THE DESIGN CENTER. |
| RoHS    |                                    |

- 2. PLASTIC: THERMOSET PLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
- 3. SOLDERABILITY: CONFORMS TO ANSI/J-STD-002, 245°C REFLOW PEAK TEMPERATURE PER IPC/EIA J-STD-003A
- 4. OPERATING TEMPERATURE: -40°C TO +85°C
- 5. STORAGE TEMPERATURE: -50°C TO +125°C
- 6. JEDEC MOISTURE: LEVEL 1.
- 7. DIMENSIONS ARE IN INCHES WITH THE FOLLOWING TOLERANCES:  
.XX = ±.02  
.XXX = ±.010
- 8. REVISION: MX1, MX2, ..... ARE PRELIMINARY.



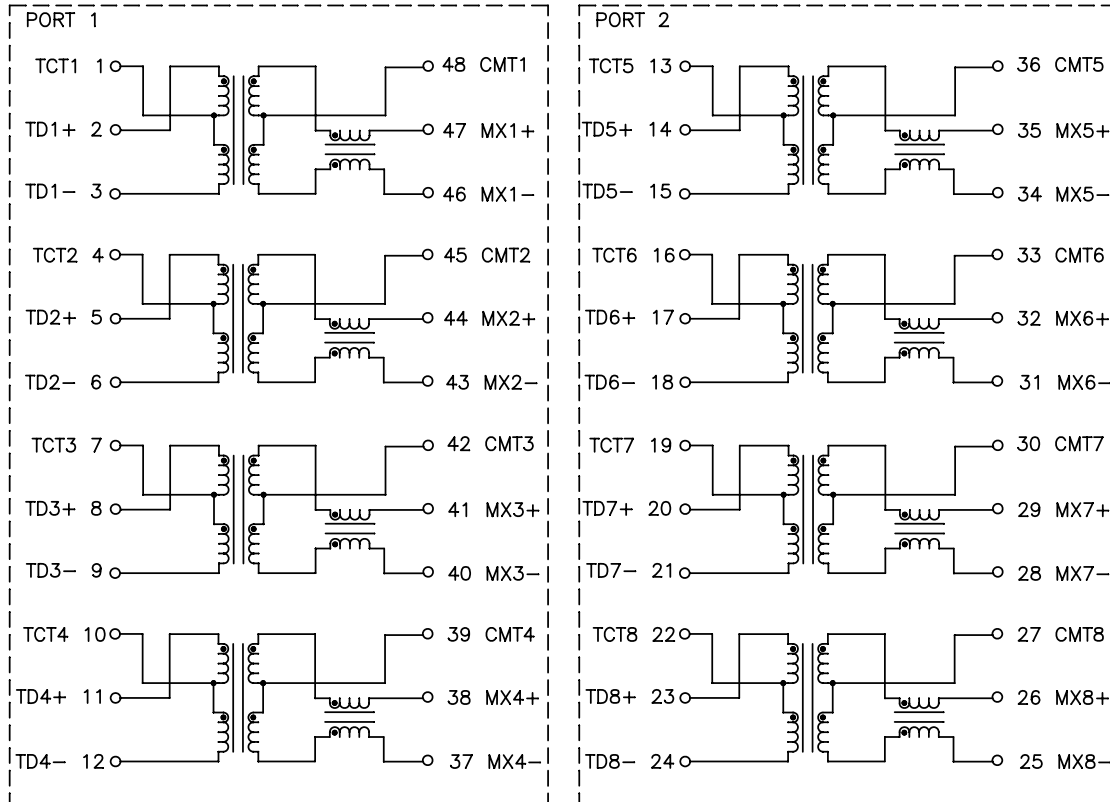
SUGGESTED LAND PATTERN



© Copyright, 2013. Pulse Electronics Corp. All rights reserved. Drawing specifications subject to change without notice. (08/08/13)

|  |                        |               |        |                    |      |
|--|------------------------|---------------|--------|--------------------|------|
| PULSE CONFIDENTIAL<br>&<br>PROPRIETARY | PRODUCT DESCRIPTION    | PS DRAWING    | SHEET: | DWG. NO./ PART NO. | REV. |
|  | MDL,DUAL,1GD,1:1,SM,TU | PS-2747.001-A | 1      | HX5014FNL          | MP1  |

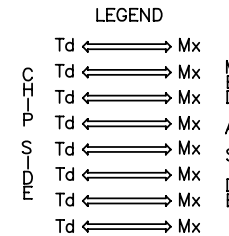
ELECTRICAL CHARACTERISTICS AT +25°C



SCHEMATIC

| PARAMETER                                     | SPECIFICATIONS  |  |
|---|---|--|
| OPERATING TEMP                                | -40°C ~ +85°C   |  |
| TURNS RATIO                                   | 1.0 ± 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 mVRMS 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.



ALL CHANNELS ARE IN PHASE BETWEEN INPUT AND OUTPUT

|  |                        |               |        |                    |      |
|--|------------------------|---------------|--------|--------------------|------|
| PULSE CONFIDENTIAL<br>&<br>PROPRIETARY | PRODUCT DESCRIPTION    | PS DRAWING    | SHEET: | DWG. NO./ PART NO. | REV. |
|  | MDL,DUAL,1GD,1:1,SM,TU | PS-2747.001-A | 2      | HX5014FNL          | MP1  |