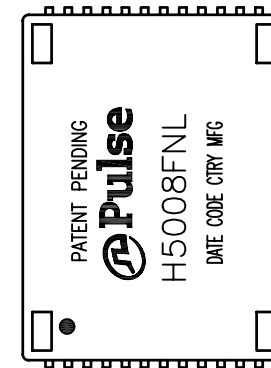


NOTES:

1. ROHS COMPLIANT
2. HEADER: DAP (DIALLYL PHTHALATE) 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 H5008FNL BECOMES H5008FNLT).

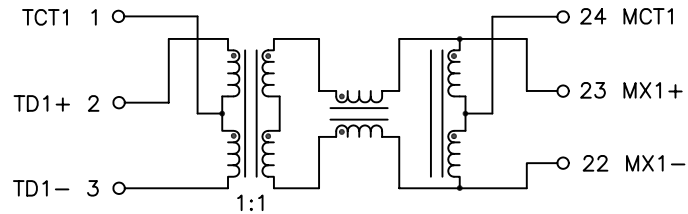


FINAL OUTLINE

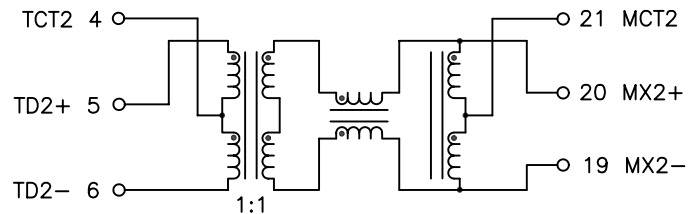
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| PRODUCT DESCRIPTION   | TLA DRAWING | PS DRAWING    | SHEET  | PART NO. | DATASHEET REV. |
|-----------------------|-------------|---------------|--------|----------|----------------|
| MDL,SIN,1GD,1:1,SM,TU | H5008FNL-10 | PS-2748.001-D | 1 OF 3 | H5008FNL | A              |

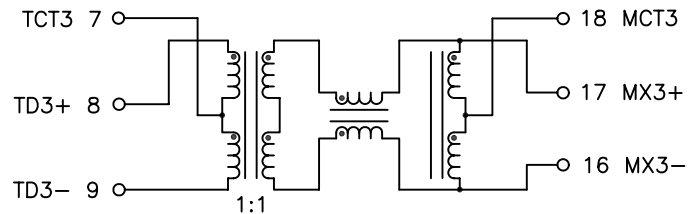
CHANNEL 1



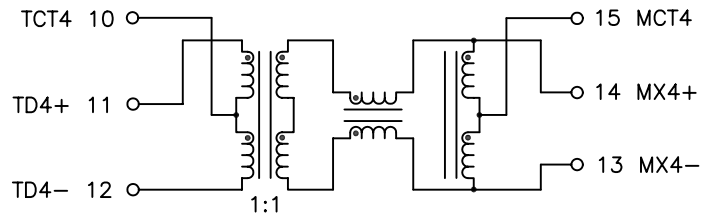
CHANNEL 2



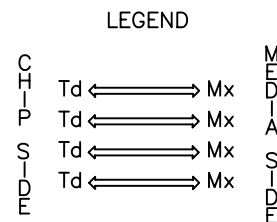
CHANNEL 3



CHANNEL 4



SCHEMATIC



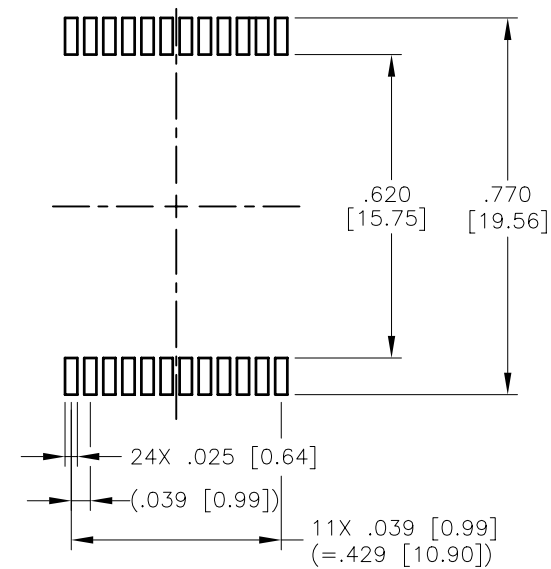
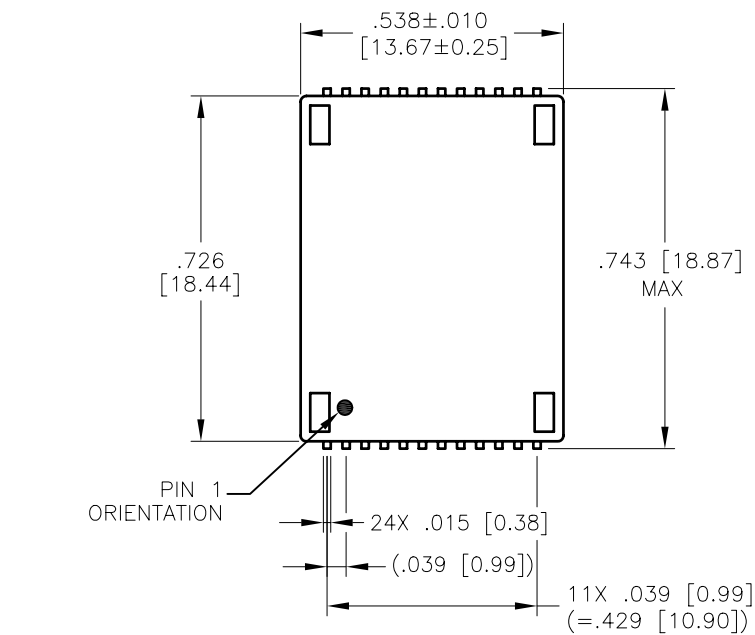
ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED  
MEETS IEEE 802.3 SPECIFICATION

| PARAMETER                                | SPECIFICATIONS   |  |
|--|--|--|
| OPERATING TEMP                           | 0°C – 70°C   |  |
| TURNS RATIO                              | 1.00 ± 2%  |  |
| POLARITY                                 | PER SCHEMATIC  |  |
| 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, 0–70°C) | 350 uH MIN (MEASURED AT 100 KHz, 100 mVRMS<br>WITH 8 mA DC BIAS) |  |
| CROSSTALK, ADJACENT<br>CHANNELS          | 1 MHz  | 10–100 MHz                                 |
|  | –50 dB MIN   | –55+22*LOG <sub>10</sub> (f/10) dB MIN     |
| COMMON MODE<br>REJECTION RATIO           | 2 MHz  | 30–200 MHz                                 |
|  | –50 dB MIN   | –15+20*LOG <sub>10</sub> (f/200) dB MIN    |
| DC RESISTANCE,<br>1/2 WINDING            | .65 OHMS MAX   |  |
| DC RESISTANCE<br>BALANCE                 | ±.065 OHMS MAX (CENTER TAP SYMMETRY)                             |  |
| INPUT – OUTPUT<br>ISOLATION              | 1500 VRMS MIN @ 60 SECONDS                                       |  |

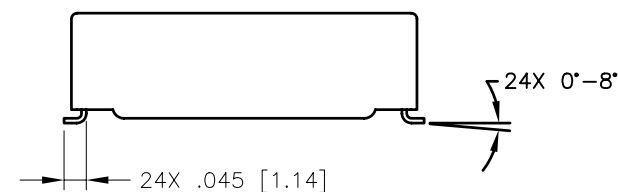
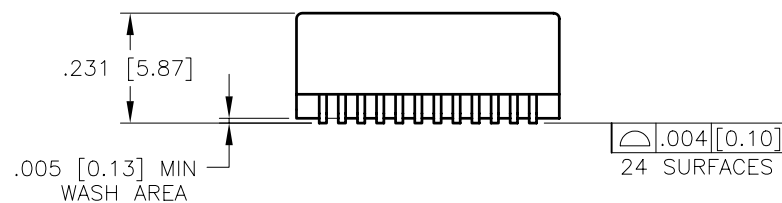
NOTE: f IS FREQUENCY IN MHZ.

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|-----------------------|-------------|---------------|--------|----------|----------------|
| MDL,SIN,1GD,1:1,SM,TU | H5008FNL-10 | PS-2748.001-D | 2 OF 3 | H5008FNL | A              |



SUGGESTED LAND PATTERN



DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.  
.XX=  $\pm .01$  [ $\pm 0.25$ ]  
.XXX=  $\pm .005$  [ $\pm 0.13$ ]

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|-----------------------|-------------|---------------|--------|----------|----------------|
| MDL,SIN,1GD,1:1,SM,TU | H5008FNL-10 | PS-2748.001-D | 3 OF 3 | H5008FNL | A              |

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