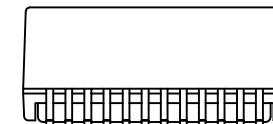
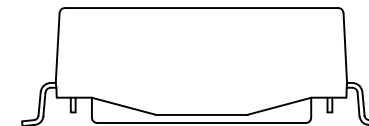
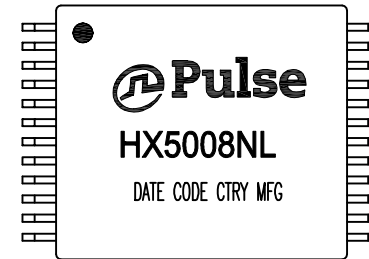


NOTES:

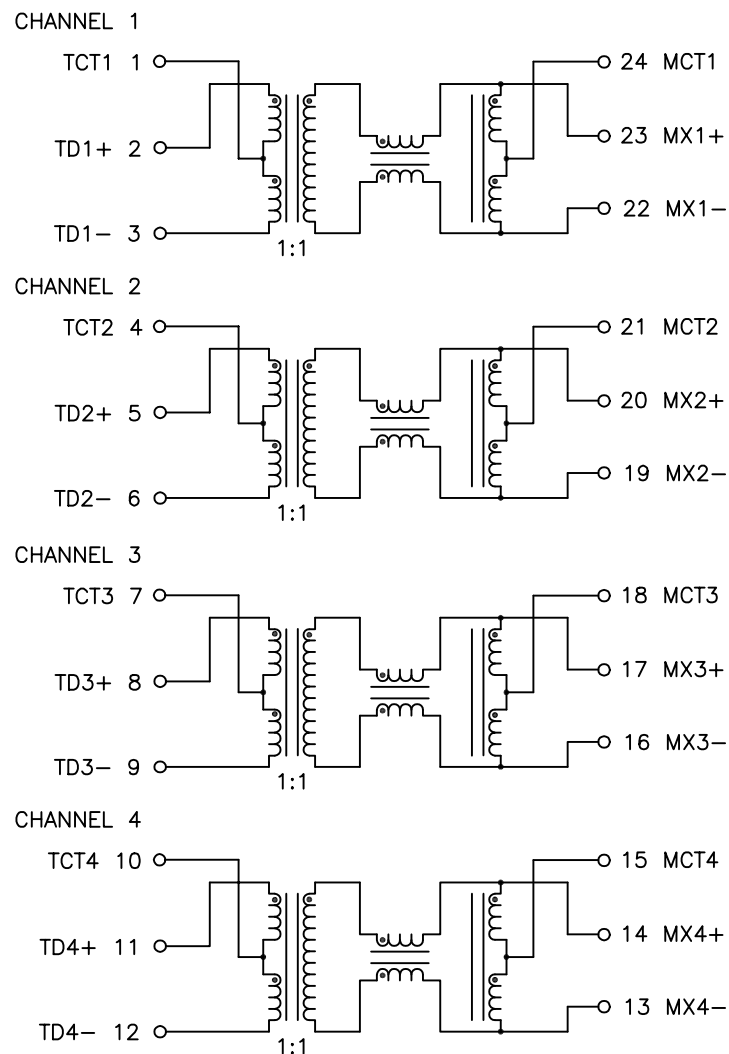
1. ROHS COMPLIANT
2. HEADER: THERMOSET PLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. STORAGE TEMPERATURE: -50°C TO +125°C
4. COMPLIANCE TO J-STD:
  - A. J-STD-002: SOLDERABILITY AT 245°C REFLOW PROFILE
  - B. J-STD-020: LEVEL 1, NO MOISTURE SENSITIVE
  - C. J-STD-075: R7, 245°C MAXIMUM THROUGH REFLOW SOLDER
5. TO ORDER TAPE & REEL PACKAGING ADD A "T" SUFFIX TO THE PART NUMBER(i.e HX5008NL BECOMES HX5008NLT).



FINAL OUTLINE

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| PRODUCT DESCRIPTION   | TLA DRAWING | PS DRAWING    | SHEET  | PART NO. | DATASHEET REV. |
|-----------------------|-------------|---------------|--------|----------|----------------|
| MDL,SIN,1GD,1:1,SM,OH | HX5008NL-14 | PS-0118.001-D | 1 OF 3 | HX5008NL | A              |



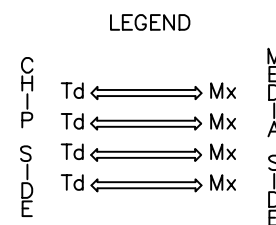
SCHEMATIC

ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED

MEETS IEEE 802.3 SPECIFICATION

| PARAMETER                                | SPECIFICATIONS                             |                                        |             |
|------------------------------------------|--------------------------------------------|----------------------------------------|-------------|
| OPERATING TEMP                           | −40°C − +85 °C                             |                                        |             |
| URNS RATIO                               | 1 : 1 ±2%                                  |                                        |             |
| POLARITY                                 | PER SCHEMATIC                              |                                        |             |
| OCL, TRANSMIT CHANNEL                    | 325 uh MIN. WITH 8mA DC BIAS, −40 TO 85 °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<br>ISOLATION              | 1500 VRMS MIN                              |                                        |             |

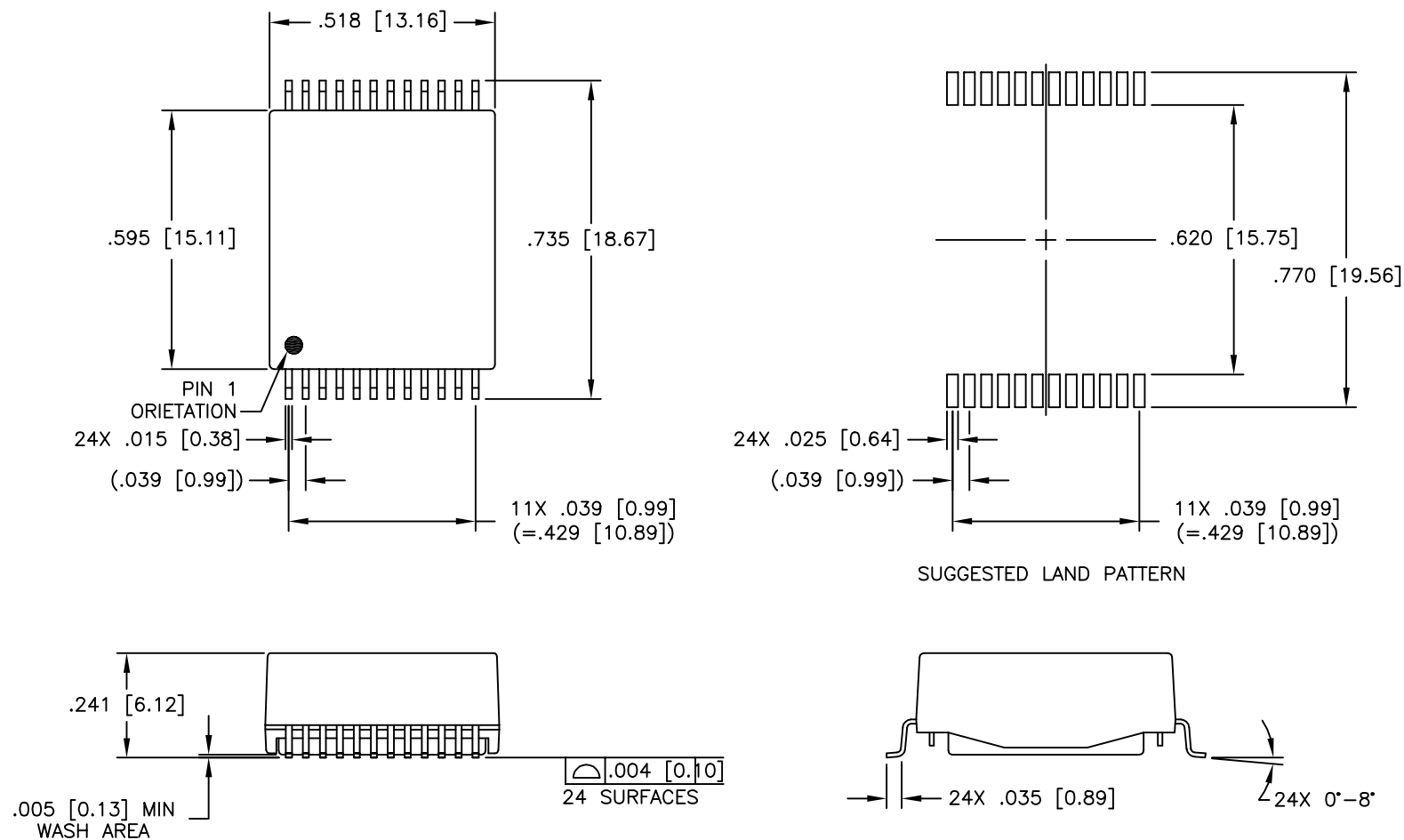
NOTE: f IS FREQUENCY IN MHZ.



ALL CHANNELS ARE  
IN PHASE BETWEEN  
INPUT AND OUTPUT

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| PRODUCT DESCRIPTION   | TLA DRAWING | PS DRAWING    | SHEET  | PART NO. | DATASHEET REV. |
|-----------------------|-------------|---------------|--------|----------|----------------|
| MDL,SIN,1GD,1:1,SM,OH | HX5008NL-14 | PS-0118.001-D | 2 OF 3 | HX5008NL | A              |



DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.  
 .XX=  $\pm 0.02$  [ $\pm 0.5$ ]  
 .XXX=  $\pm 0.010$  [ $\pm 0.25$ ]

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| PRODUCT DESCRIPTION   | TLA DRAWING | PS DRAWING    | SHEET  | PART NO. | DATASHEET REV. |
|-----------------------|-------------|---------------|--------|----------|----------------|
| MDL,SIN,1GD,1:1,SM,OH | HX5008NL-14 | PS-0118.001-D | 3 OF 3 | HX5008NL | A              |