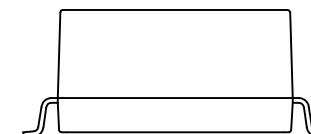
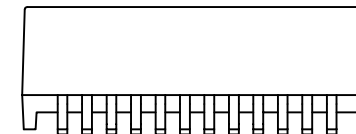
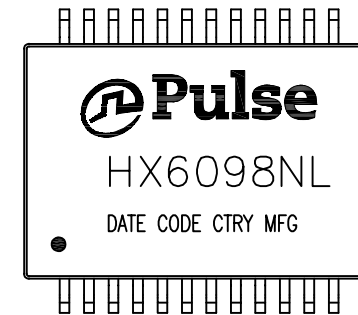


NOTES:

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 HX6098NL BECOMES HX6098NLT).

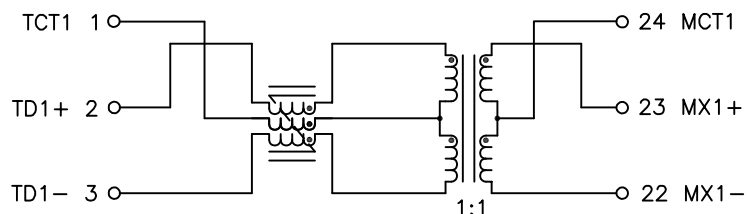


FINAL OUTLINE

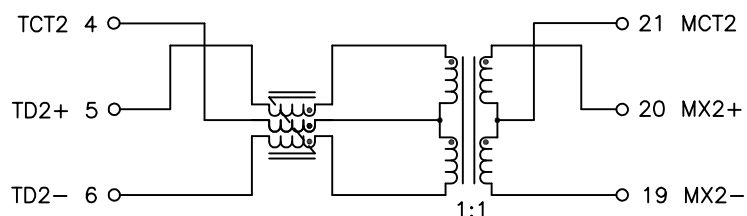
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| PRODUCT DESCRIPTION    | TLA DRAWING | PS DRAWING    | SHEET  | PART NO. | DATASHEET REV. |
|------------------------|-------------|---------------|--------|----------|----------------|
| MDL,SIN,1GPP,1:1,SM,TU | HX6098NL-11 | PS-2473.001-A | 1 OF 3 | HX6098NL | D              |

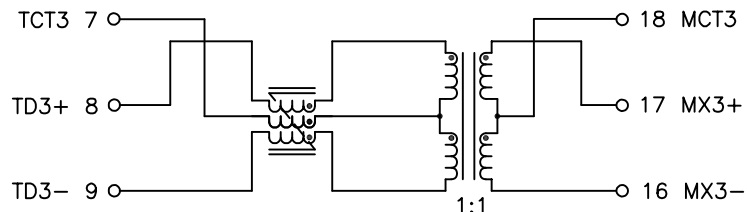
CHANNEL A



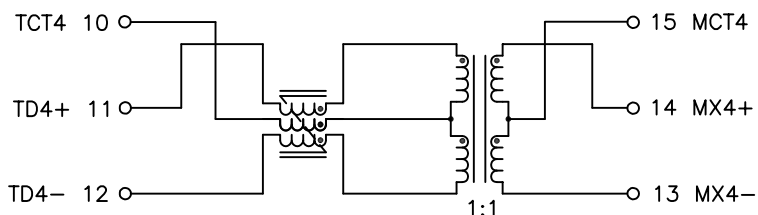
CHANNEL B



CHANNEL C



CHANNEL D



SCHEMATIC

ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED

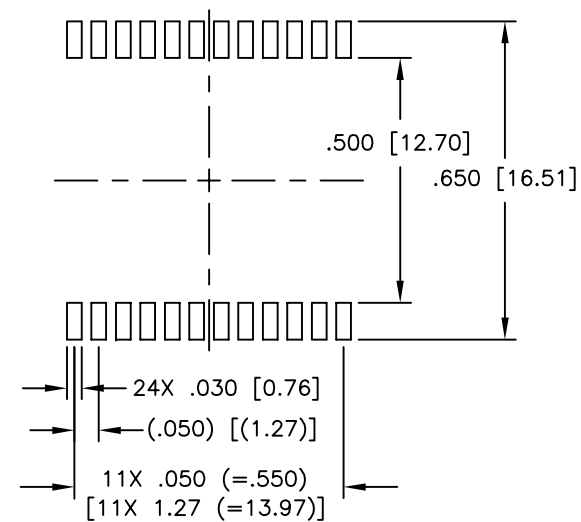
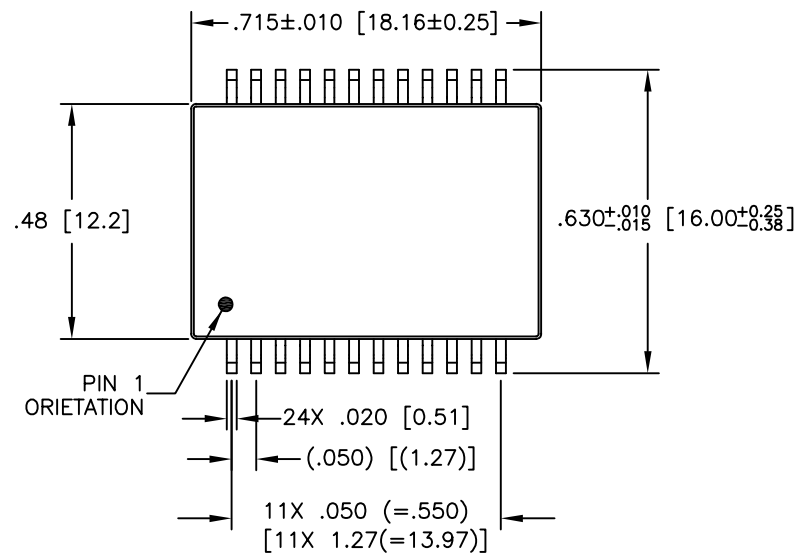
MEETS IEEE 802.3 SPECIFICATION

| PARAMETER                                      | SPECIFICATIONS  |  |             |
|--|---|--|-------------|
| OPERATING TEMPERATURE                          | -40°C TO +85°C  |  |             |
| URNS RATIO                                     | 1.00 ± 2%   |  |             |
| INTERWINDING CAPACITANCE (C <sub>ww</sub> )    | 20 pF TYP. @ 1 MHz  |  |             |
| LEAKAGE INDUCTANCE (LL)                        | 250 nH TYP. @ 100 kHz, 100 mV                                       |  |             |
| URNS RATIO                                     | 1.00 ± 2%   |  |             |
| INSERTION LOSS                                 | 100 KHz   | 1-100 MHz                                  | 125 MHz     |
|  | -1.2 dB MAX   | -1.0 dB MAX                                | -2.0 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 MHz) dB MIN |             |
| INDUCTANCE (OCL)<br>(MEDIA SIDE, -40 TO +85°C) | 120 uH MIN (MEASURED AT 100 KHz, 100 mVRMS)<br>(WITH 28 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                     | .30 OHMS MAX.   |  |             |
| DC CURRENT/VOLTAGE RATING                      | 1.37A MAX @ 57 V (CONTINUOUS)                                       |  |             |
| DC RESISTANCE BALANCE                          | ±.05 OHMS MAX (CENTER TAP SYMMETRY)                                 |  |             |
| INPUT - OUTPUT ISOLATION                       | 1500 VRMS MIN @ 60 SECONDS  |  |             |

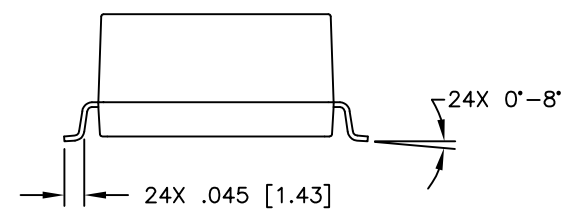
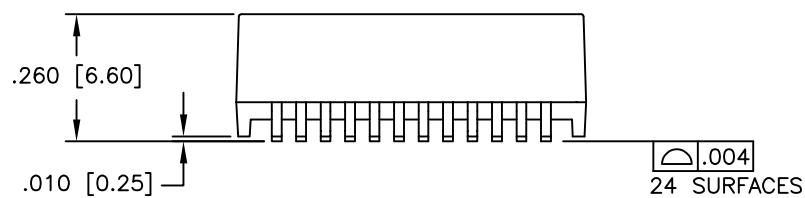
NOTE: f IS FREQUENCY IN MHz.

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|------------------------|-------------|---------------|--------|----------|----------------|
| MDL,SIN,1GPP,1:1,SM,TU | HX6098NL-11 | PS-2473.001-A | 2 OF 3 | HX6098NL | D              |



SUGGESTED LAND PATTERN



DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.  
 .XX=  $\pm .02$  [ $\pm 0.5$ ]  
 .XXX=  $\pm .010$  [ $\pm 0.25$ ]

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| PRODUCT DESCRIPTION    | TLA DRAWING | PS DRAWING    | SHEET  | PART NO. | DATASHEET REV. |
|------------------------|-------------|---------------|--------|----------|----------------|
| MDL,SIN,1GPP,1:1,SM,TU | HX6098NL-11 | PS-2473.001-A | 3 OF 3 | HX6098NL | D              |

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