RoHS COMPLIANT

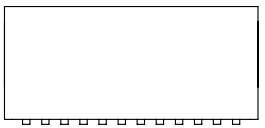
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NOTES:

1. ROHS COMPLIANT
2. HEADER: DAP (DIALLYL PHTHALATE) 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 HX2305FNL BECOMES HX2305FNLT).





FINAL OUTLINE

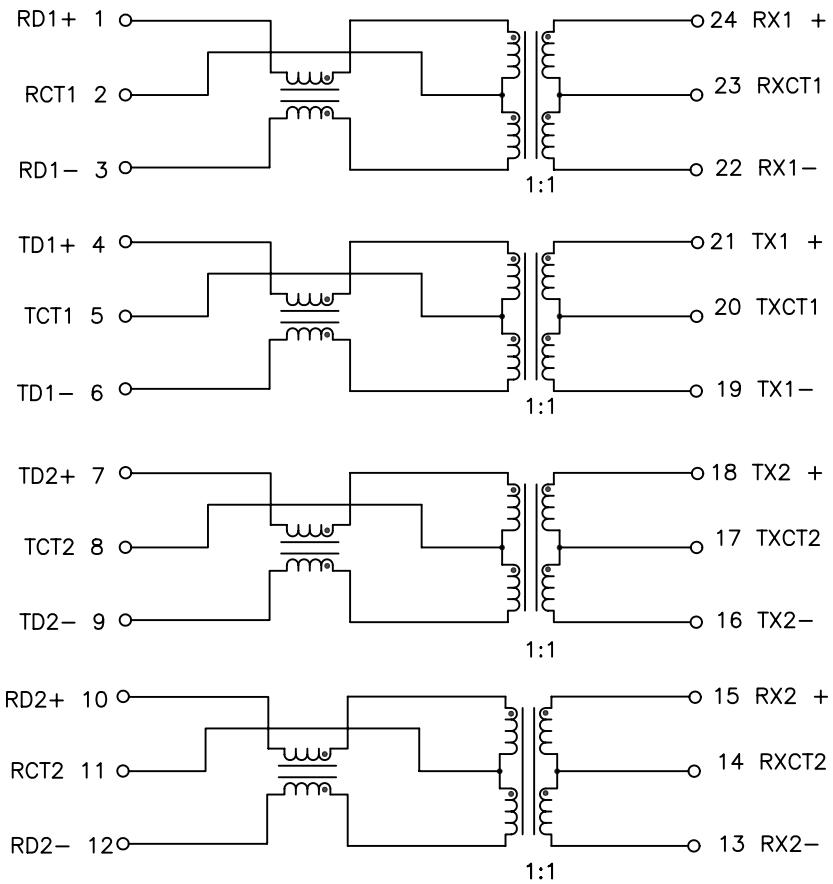
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| PRODUCT DESCRIPTION | TLA DRAWING | PS DRAWING | SHEET | PART NO. | DATASHEET REV. |
|---|---|---|---|---|---|
| MDL,DUAL,100P,1:1,SM,TU | HX2305FNL-10 | PS-2745.001-A | 1 OF 3 | HX2305FNL | A |

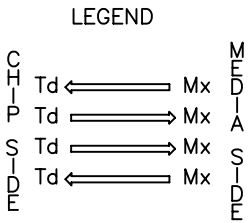
E-MAIL: PRODINFONETWORK@PULSEELECTRONICS.COM(US), ASIA@PULSEELECTRONICS.COM(Asia) PHONE: USA:858 674 8100, GERMANY:49 7032 78060, SINGAPORE:65 6287 8998, SHANGHAI:86 21 62787060, TAIWAN:886 3 4356768

RoHS COMPLIANT

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SCHEMATIC




ALL CHANNELS ARE IN PHASE BETWEEN INPUT AND OUTPUT

ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED

MEETS IEEE 802.3 SPECIFICATION

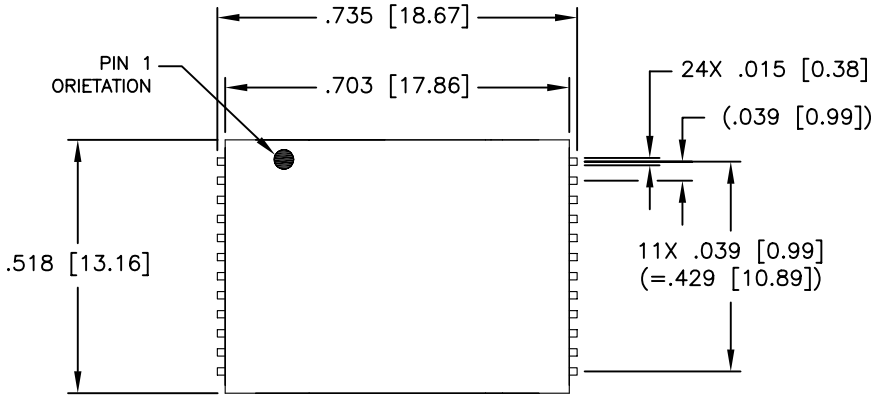
| PARAMETER | SPECIFICATIONS | |
|---|---|---|
| OPERATING TEMPERATURE | −40°C ~ +85°C | |
| TURNS RATIO | 1.00 ± 2% | |
| POLARITY | PER SCHEMATIC | |
| INSERTION LOSS | 100 KHz | 1−125 MHz |
| | −1.2 dB MAX | $-0.2-0.002*\sqrt{f}^{1.4}$ dB MAX |
| RETURN LOSS (Z OUT = 100 OHM ±15%) | .1−40 MHz | 40−100 MHz |
| | −16 dB MIN | $-10+20*\text{LOG}_{10}(f/80\ \text{MHz})$ dB MIN |
| INDUCTANCE (OCL) (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 | $-55+22*\text{LOG}_{10}(f/10)$ dB MIN |
| DIFFERENTIAL TO COMMON MODE REJECTION | 2 MHz | 30−200 MHz |
| | −50 dB MIN | $-43+22*\text{LOG}_{10}(f/30)$ 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 | |

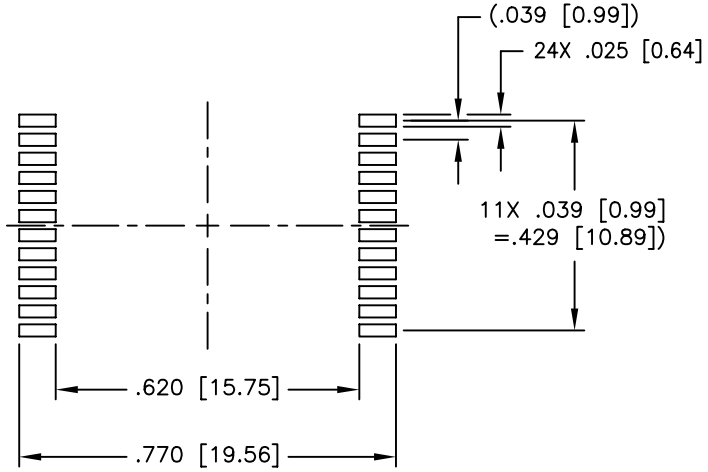
NOTE: f IS FREQUENCY IN MHz.

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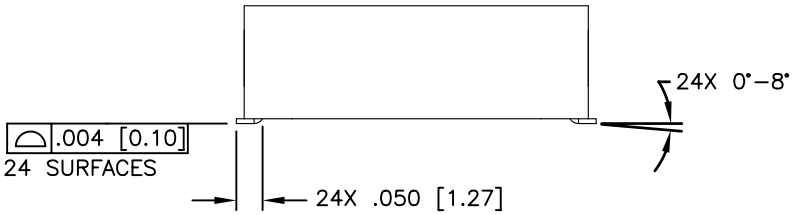


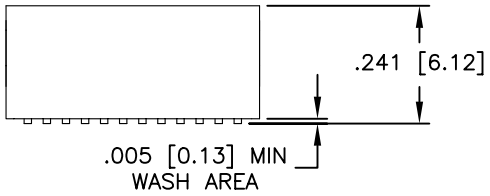
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SUGGESTED LAND PATTERN




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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