RoHS COMPLIANT

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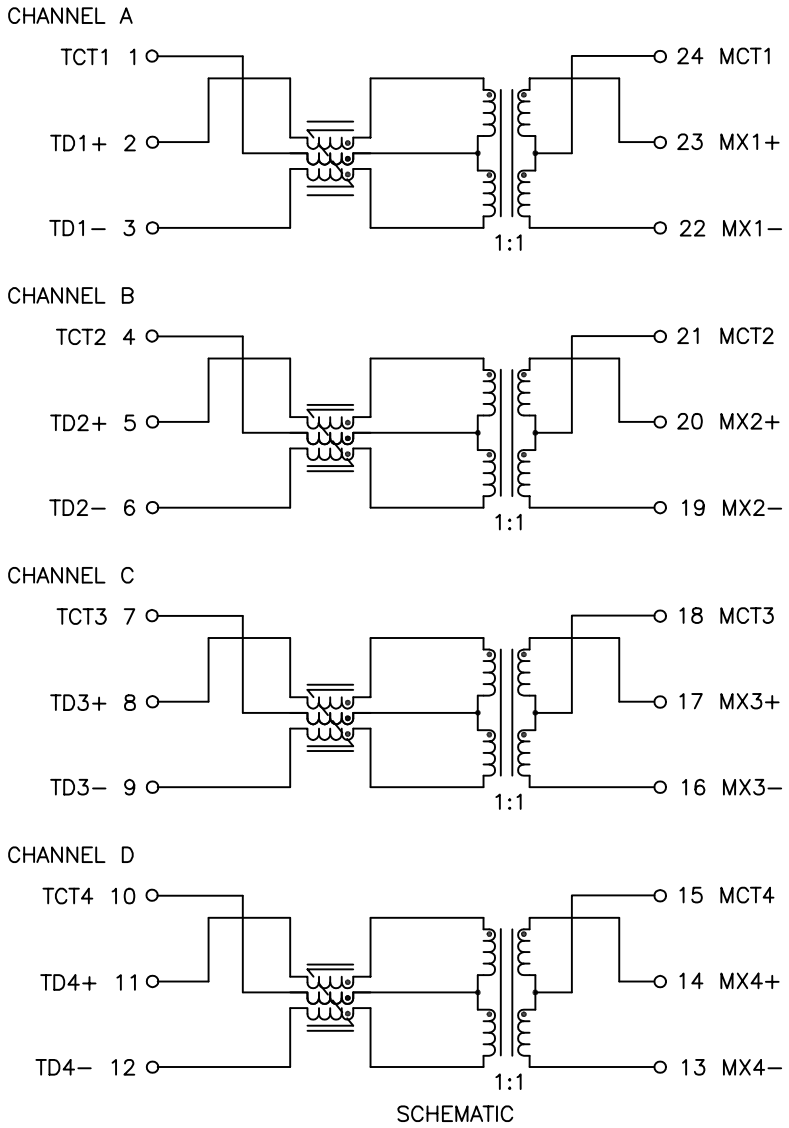


SCHEMATIC

ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED

MEETS IEEE 802.3 SPECIFICATION

| PARAMETER | SPECIFICATIONS | |
|---|---|---|
| OPERATING TEMP | 0°C – 70 °C | |
| TURNS RATIO | 1 : 1 ±3% | |
| POLARITY | PER SCHEMATIC | |
| INSERTION LOSS | 100 KHz | 1–125 MHz |
| | –1.2 dB MAX | $-0.2-0.002*\hat{f}^{1.4}$ 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, –0 – +70°C) | 350 uH MIN (MEASURED AT 100 KHz, 100 mVRMS WITH 8 mA DC BIAS) | |
| | 120 uH MIN (MEASURED AT 100 KHz, 100 mVRMS WITH 19 mA DC BIAS) | |
| CROSSTALK, ADJACENT CHANNELS | 1 MHz | 10–100 MHz |
| | –50 dB MIN | $-55+22*\text{LOG}_{10}(f/10)$ dB MIN |
| COMMON MODE REJECTION RATIO | 2 MHz | 30–200 MHz |
| | –50 dB MIN | $-15+20*\text{LOG}_{10}(f/200)$ dB MIN |
| DC RESISTANCE, 1/2 WINDING | .30 OHMS TYP. | |
| DC RESISTANCE BALANCE | ±.05 OHMS MAX (CENTER TAP SYMMETRY) | |
| INPUT – OUTPUT ISOLATION | 1500 VRMS MIN @ 60 SECONDS | |

NOTE: f IS FREQUENCY IN MHz.



| PRODUCT DESCRIPTION | TLA DRAWING | PS DRAWING | SHEET | PART NO. | DATASHEET REV. |
|---|---|---|---|---|---|
| MDL,SIN,1GP,1:1,SM,TU | H6096NL–13 | PS–2473.001–A | 2 OF 3 | H6096NL | A |

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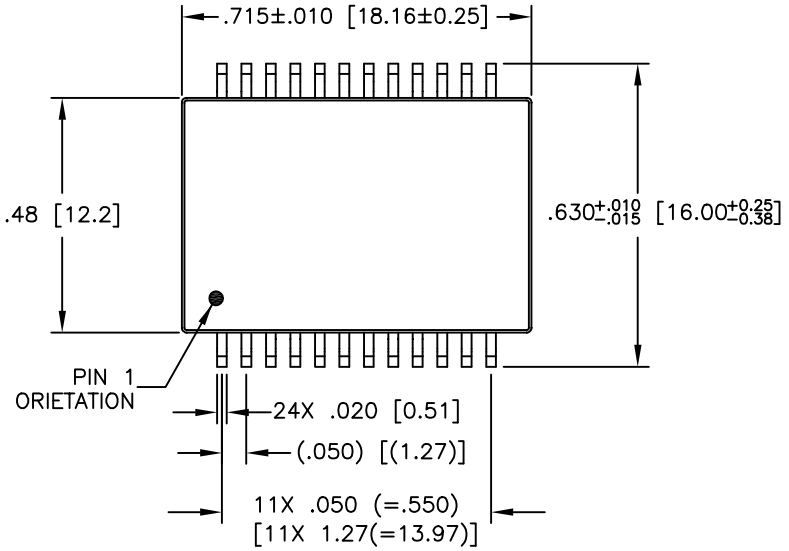
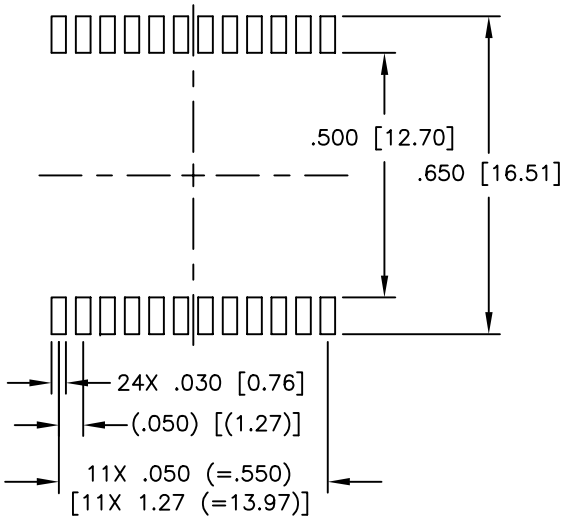
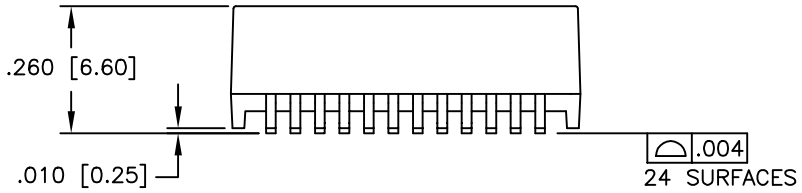
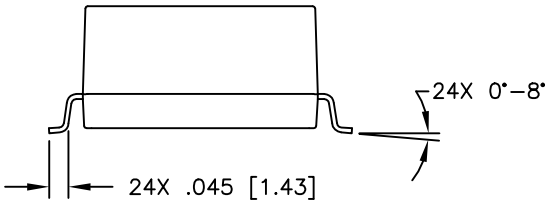



SUGGESTED LAND PATTERN




DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING
TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.
.XX= ±.02 [±0.50]
.XXX= ±.010 [±0.25]



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