
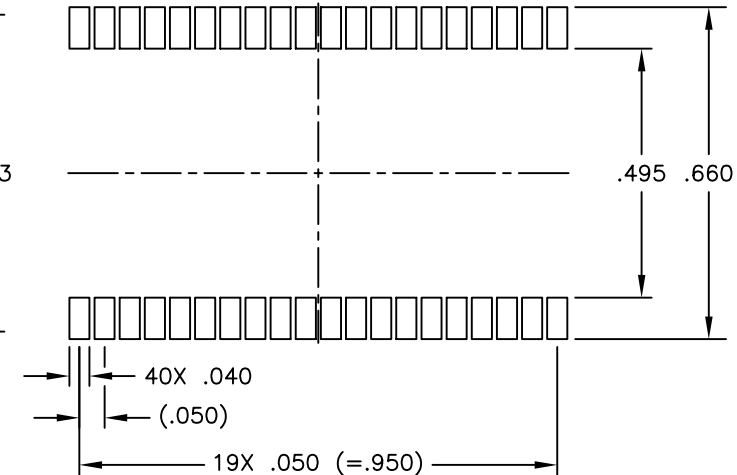
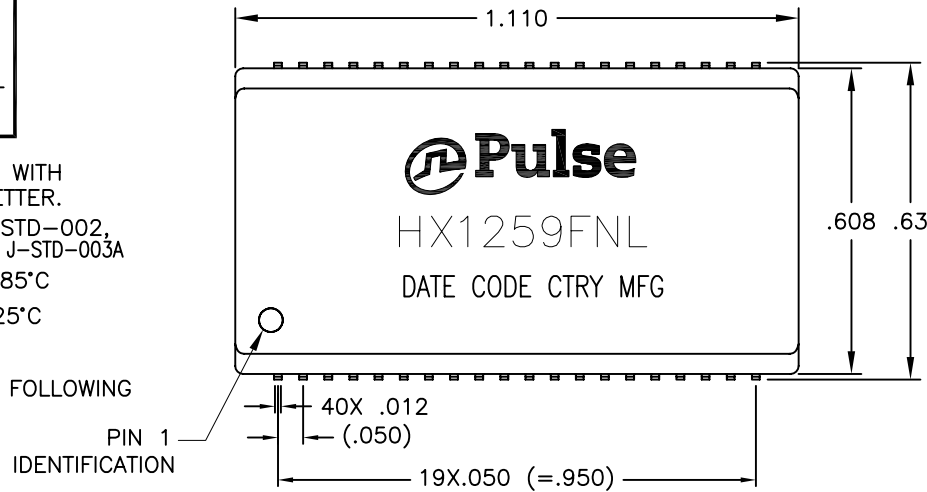


NOTES: UNLESS OTHERWISE SPECIFIED

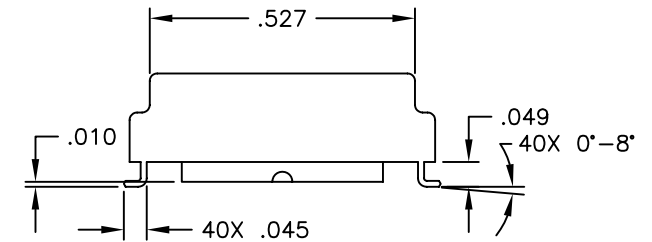
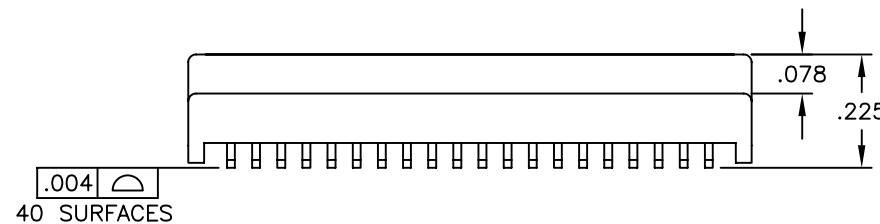
1.

| | |
|---------|--|
| NOTICE: | THIS IS A RoHS COMPLIANT COMPONENT/PRODUCT. ALL ENGINEERING CHANGES MUST HAVE PRIOR APPROVAL BY THE DESIGN CENTER. |
| RoHS |  |

2. PLASTIC: THERMOSET PLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. SOLDERABILITY: CONFORMS TO ANSI/J-STD-002, 245°C REFLOW PEAK TEMPERATURE PER IPC/EIA J-STD-003A
4. OPERATING TEMPERATURE: -40°C TO +85°C
5. STORAGE TEMPERATURE: -50°C TO +125°C
6. JEDEC MOISTURE: LEVEL 1.
7. DIMENSIONS ARE IN INCHES WITH THE FOLLOWING TOLERANCES:
.XX = ±.02
.XXX = ±.010
8. REVISION: MP1, MP2, ARE PRELIMINARY.



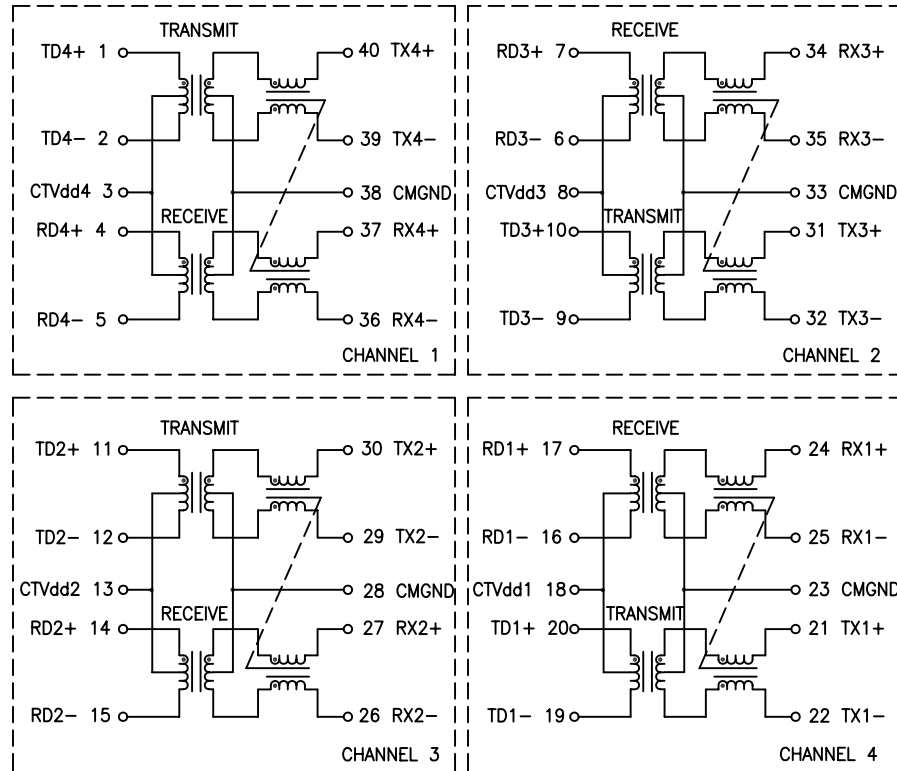
SUGGESTED PAD LAYOUT



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| | | | | | |
|--|-------------------------|---------------|--------|--------------------|------|
| PULSE CONFIDENTIAL & PROPRIETARY | PRODUCT DESCRIPTION | PS DRAWING | SHEET: | DWG. NO./ PART NO. | REV. |
| | MDL,QUAD,100D,1:1,SM,TU | PS-2743.001-A | 1 | HX1259FNL | MP1 |

ELECTRICAL CHARACTERISTICS AT +25°C



SCHEMATIC

| PARAMETER | SPECIFICATIONS | | |
|---|---|--|-----------|
| OPERATING TEMP | -40°C ~ +85°C | | |
| TURNS RATIO | 1 : 1 ±2% | | |
| POLARITY | PER SCHEMATIC | | |
| INSERTION LOSS | 100 KHz | 1-125 MHz | |
| | -1.2 dB MAX | -0.2-0.002*f ^{1.4} dB MAX | |
| RETURN LOSS, 100BT (Z OUT = 100 OHM ±15%) | .1-30 MHz | 30-60 MHz | 60-80 MHz |
| | -16 dB MIN | -10+20*LOG ₁₀ (f/60 MHz) dB MIN | |
| | | -10 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*LOG ₁₀ (f/10) dB MIN | |
| COMMON MODE REJECTION RATIO | 2 MHz | 30-200 MHz | |
| | -50 dB MIN | -15+20*LOG ₁₀ (f/200) 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.