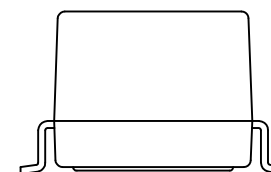
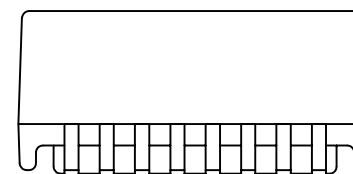
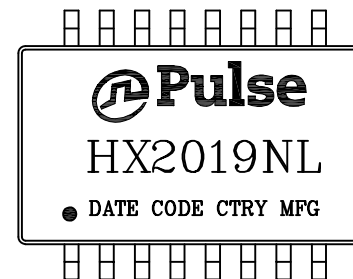




NOTES:

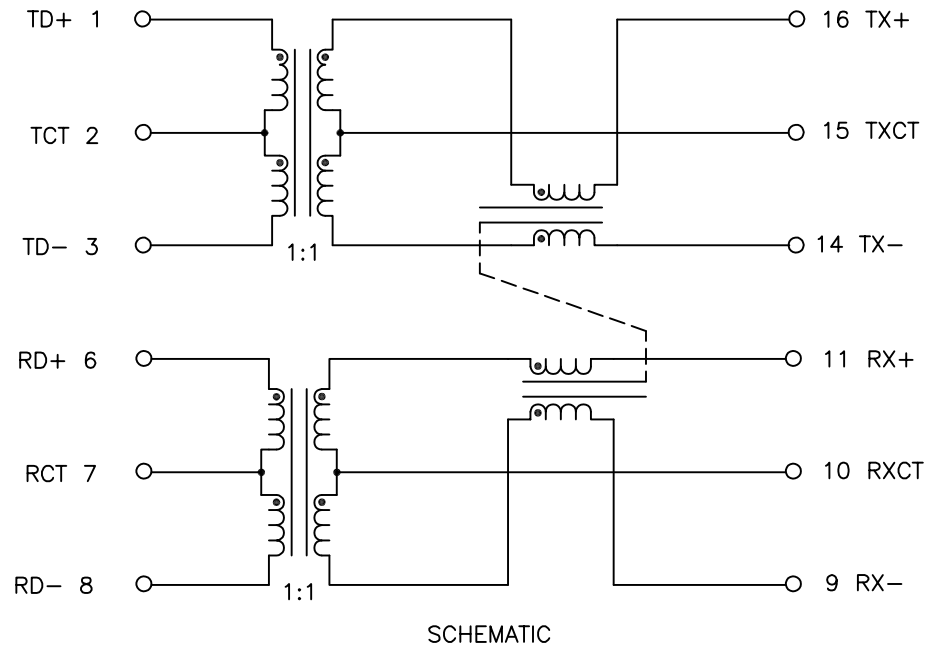
1. ROHS COMPLIANT
2. HEADER: THERMOSET PLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. STORAGE TEMPERATURE: -50°C TO +125°C
4. COMPLIANCE TO J-STD:
 - A. J-STD-002: SOLDERABILITY AT 245°C REFLOW PROFILE
 - B. J-STD-020: LEVEL 1, NO MOISTURE SENSITIVE
 - C. J-STD-075: R7, 245°C MAXIMUM THROUGH REFLOW SOLDER
5. TO ORDER TAPE & REEL PACKAGING ADD A "T" SUFFIX TO THE PART NUMBER(i.e HX2019NL BECOMES HX2019NLT).



FINAL OUTLINE

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| PRODUCT DESCRIPTION | TLA DRAWING | PS DRAWING | SHEET | PART NO. | DATASHEET REV. |
|----------------------|-------------|---------------|--------|----------|----------------|
| MDL,SIN,100P,1:1,SMT | HX2019NL-18 | PS-2005.001-F | 1 OF 3 | HX2019NL | B |



ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED
MEETS IEEE 802.3 SPECIFICATION

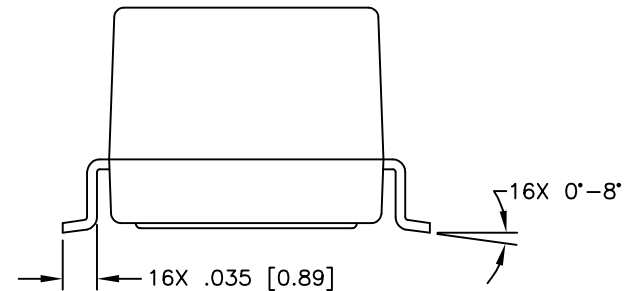
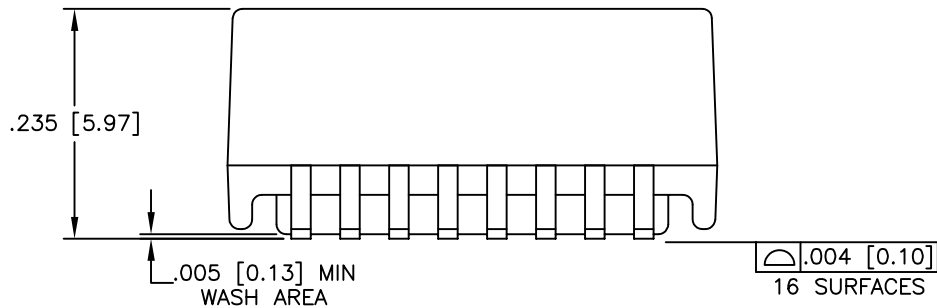
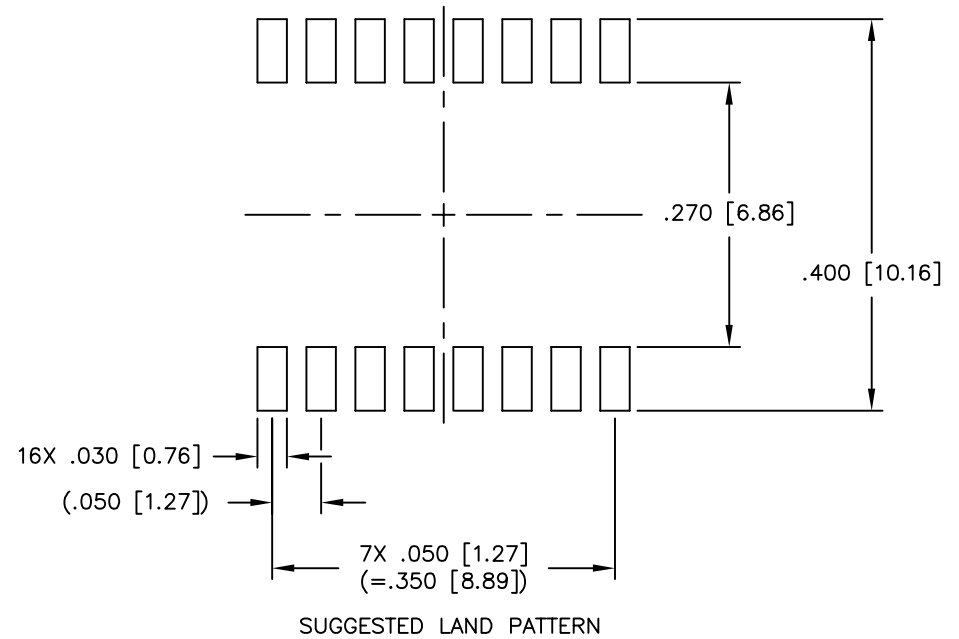
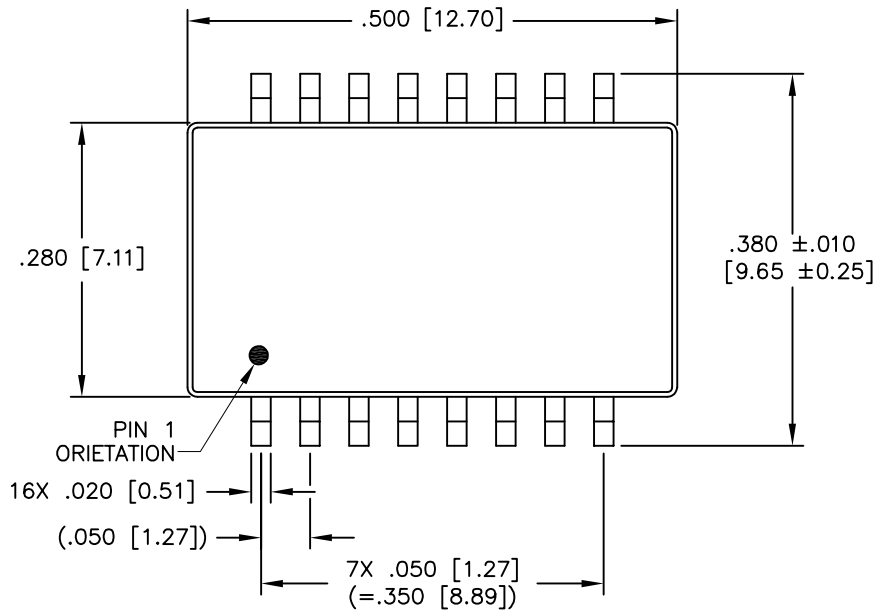
| PARAMETER | SPECIFICATIONS | | |
|---|---|---|------------|
| OPERATING TEMP | -40°C TO +85°C | | |
| TURNS RATIO | 1.00 ± 2% | | |
| POLARITY | PER SCHEMATIC | | |
| INSERTION LOSS | 100 KHz | 1-125 MHz | |
| | -1.2 dB MAX | -0.2-0.002*f ^{1.4} dB MAX | |
| RETURN LOSS, 1000BT (Z OUT = 100 OHM ±15%) | .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 | |
| | -45 dB MIN | -7+28*LOG ₁₀ (f/200) dB MIN | |
| DC RESISTANCE, 1/2 WINDING | .75 OHMS MAX | | |
| DC CURRENT/VOLTAGE, RATING - PSE PINS | 350 mA MAX, @ 57 V (CONTINUOUS) | | |
| DC RESISTANCE IMBALANCE | ±.065 OHMS MAX (CENTER TAP SYMMETRY) | | |
| INPUT - OUTPUT ISOLATION | 1500 VRMS MIN AT 60 SECONDS | | |

NOTES: f IS FREQUENCY IN MHZ.

* = 325 uH AT -40°C

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| MDL,SIN,100P,1:1,SMT | HX2019NL-18 | PS-2005.001-F | 2 OF 3 | HX2019NL | B |



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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| PRODUCT DESCRIPTION | TLA DRAWING | PS DRAWING | SHEET | PART NO. | DATASHEET REV. |
|----------------------|-------------|---------------|--------|----------|----------------|
| MDL,SIN,100P,1:1,SMT | HX2019NL-18 | PS-2005.001-F | 3 OF 3 | HX2019NL | B |