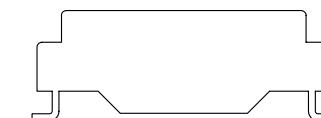
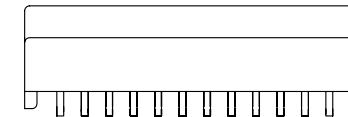
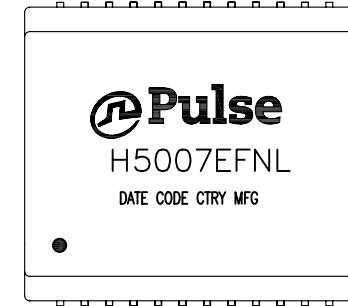




NOTES:

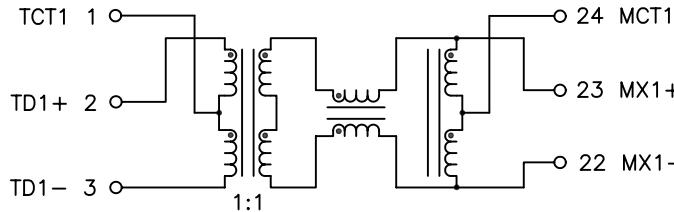
1. ROHS COMPLIANT
2. HEADER: DAP (DIALYL PHTHALATE) WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. STORAGE TEMPERATURE: -20°C TO +125°C
4. COMPLIANCE TO J-STD:
 - A. J-STD-002: SOLDERABILITY AT 245°C REFLOW PROFILE
 - B. J-STD-020: LEVEL 1, NO MOISTURE SENSITIVE
 - C. J-STD-075: R7, 245°C MAXIMUM THROUGH REFLOW SOLDER
5. TO ORDER TAPE & REEL PACKAGING ADD A "T" SUFFIX TO THE PART NUMBER(i.e H5007EFNL BECOMES H5007EFNLT).



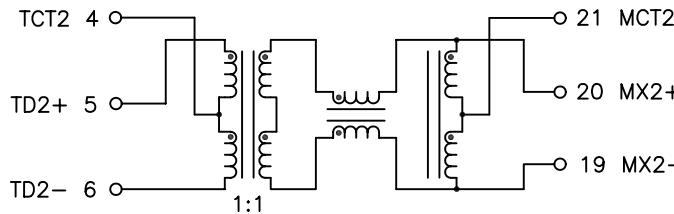
FINAL OUTLINE

| PRODUCT DESCRIPTION | TLA DRAWING | PS DRAWING | SHEET | PART NO. | DATASHEET REV. |
|-----------------------|--------------|---------------|--------|-----------|----------------|
| MDL,SIN,1GD,1:1,SM,TU | H5007EFNL-11 | PS-2597.001-C | 1 OF 3 | H5007EFNL | A |

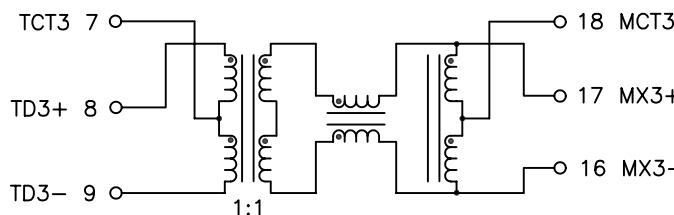
CHANNEL 1



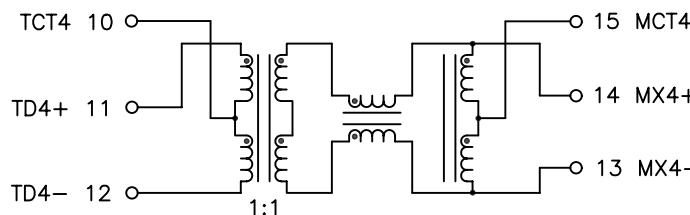
CHANNEL 2



CHANNEL 3



CHANNEL 4



SCHEMATIC

ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED

MEETS IEEE 802.3 SPECIFICATION

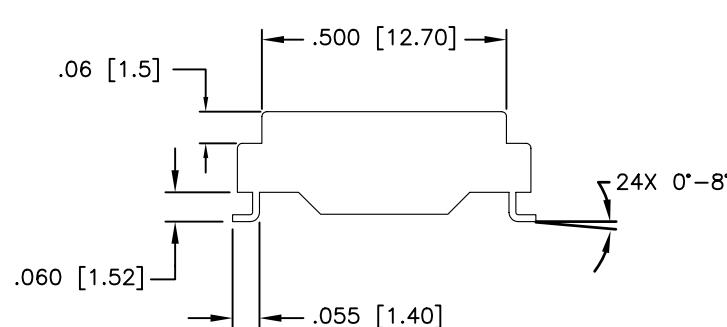
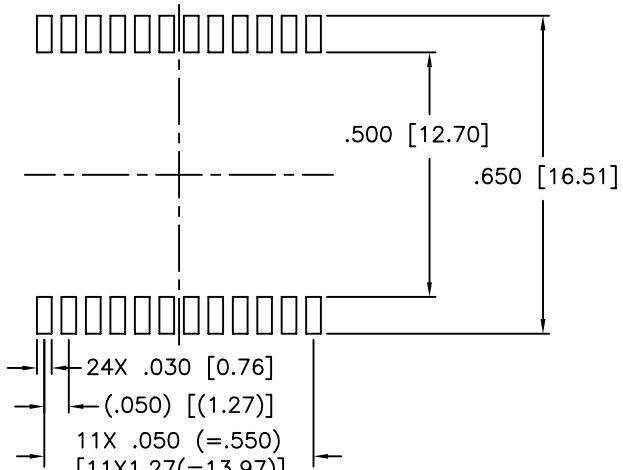
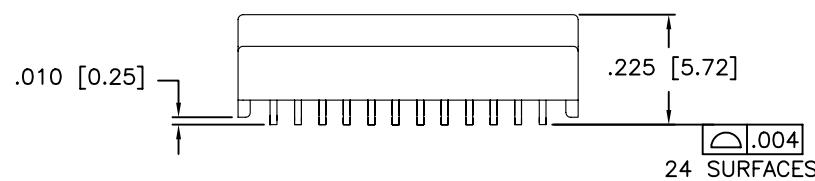
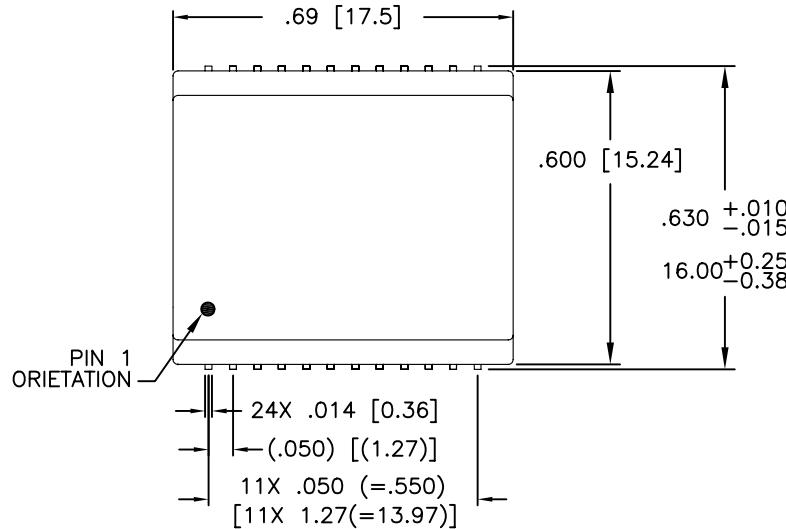
| PARAMETER | SPECIFICATIONS | |
|--------------------------------------------|--------------------------------------|-------------------------------------------------------------|
| OPERATING TEMP | 0°C – 70 °C | |
| TURNS RATIO | 1 : 1 ±2% | |
| POLARITY | PER SCHEMATIC | |
| INSERTION LOSS | 100 KHz | 1–125 MHz |
| | -1.2 dB MAX | -0.2–0.002*f^1.4 dB MAX |
| RETURN LOSS (Z OUT = 100 OHM ±15%) | .1–40 MHz | 40–100 MHz |
| | -16 dB MIN | -10+20*LOG ₁₀ (f/80 MHz) dB MIN |
| INDUCTANCE (OCL) (MEDIA SIDE, 0°C–70°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 | |

LEGEND

| | | | |
|---|----|----|---|
| C | Td | Mx | M |
| H | ↔ | | E |
| P | Td | Mx | A |
| S | ↔ | | S |
| D | Td | Mx | D |
| E | ↔ | | E |

ALL CHANNELS ARE
IN PHASE BETWEEN
INPUT AND OUTPUT

NOTE: f IS FREQUENCY IN MHZ.



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,1GD,1:1,SM,TU | H5007EFNL-11 | PS-2597.001-C | 3 OF 3 | H5007EFNL | A |