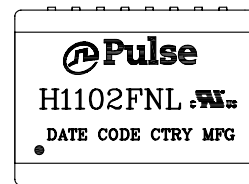


NOTES:

1. ROHS COMPLIANT
2. HEADER: DAP (DIALLYL 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 H1102FNL BECOMES H1102FNLT).



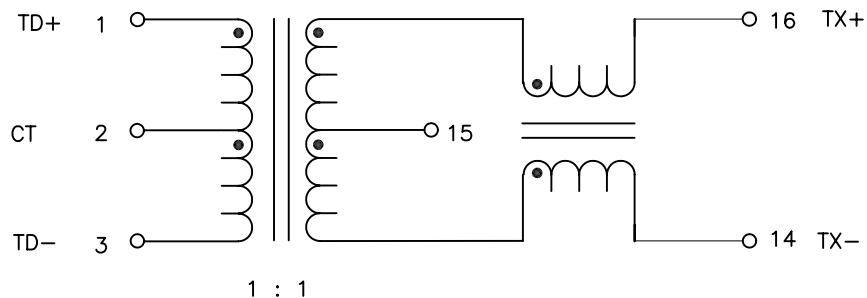
FINAL OUTLINE

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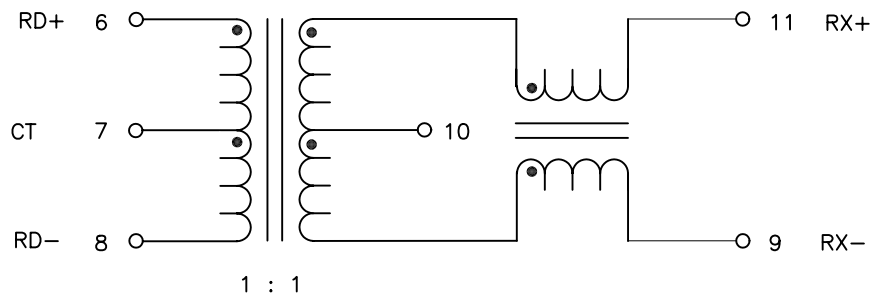
| PRODUCT DESCRIPTION | TLA DRAWING | PS DRAWING | SHEET | PART NO. | DATASHEET REV. |
|------------------------|-------------|---------------|--------|----------|----------------|
| MDL,SIN,100D,1:1,SM,TU | H1102FNL-13 | PS-2005.002-D | 1 OF 3 | H1102FNL | A |

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

TRANSMIT



RECEIVE



SCHEMATIC

| PARAMETER | SPECIFICATIONS | | | |
|---|--|---|------------|------------|
| OPERATING TEMPERATURE | 0°C - 70 °C | | | |
| URNS RATIO | 1 : 1 ±2% | | | |
| POLARITY | PER SCHEMATIC | | | |
| INSERTION LOSS | 100 KHz - 100 MHz | | | |
| | -1.1 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, 0°C-70°C) | 350 uH MIN (MEASURED AT 100 KHz, 100 mVRMS) (AND WITH 8 mA DC BIAS) | | | |
| CROSSTALK, ADJACENT CHANNELS | 1 MHz | 30 MHz | 60 MHz | 100 MHz |
| | -35 dB MIN | -35 dB MIN | -30 dB MIN | -30 dB MIN |
| DIFFERENTIAL TO COMMON MODE REJECTION | 30 MHz | | 60 MHz | 100 MHz |
| | -42 dB MIN | | -37 dB MIN | -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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| PRODUCT DESCRIPTION | TLA DRAWING | PS DRAWING | SHEET | PART NO. | DATASHEET REV. |
|------------------------|-------------|---------------|--------|----------|----------------|
| MDL,SIN,100D,1:1,SM,TU | H1102FNL-13 | PS-2005.002-D | 2 OF 3 | H1102FNL | A |