

NOTES: UNLESS OTHERWISE SPECIFIED

- NOTICE:

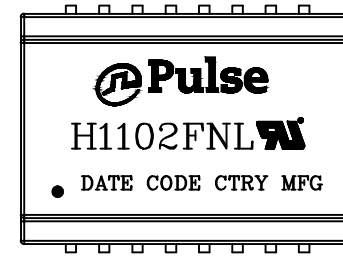
THIS IS A RoHS AND HALOGEN FREE COMPLIANT COMPONENT/PRODUCT. ALL ENGINEERING CHANGES MUST HAVE PRIOR APPROVAL BY THE DESIGN CENTER.

1.
- PLASTIC: THERMOSET PLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
- SOLDERABILITY: CONFORMS TO ANSI/J-STD-002 245°C REFLOW PEAK TEMPERATURE PER IPC/EIA J-STD-003A
- OPERATING TEMPERATURE: 0°C TO +70°C
- STORAGE TEMPERATURE: -20°C TO +125°C
- JEDEC MOISTURE: LEVEL 1.
- DIMENSIONS ARE IN INCHES WITH THE FOLLOWING TOLERANCES:  
.XX = ±.01  
.XXX = ±.005

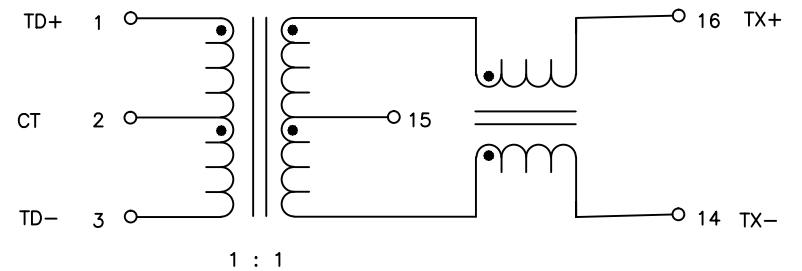
ELECTRICAL CHARACTERISTICS:  
ELECTRICAL: @ +25°C

| PARAMETER                                     | SPECIFICATIONS                                                       |                                               |            |            |
|-----------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------|------------|------------|
| OPERATING TEMP                                | 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<br>(Z OUT = 100 OHM ±15%) | .1–30 MHz                                                            | 30–60 MHz                                     | 60–80 MHz  |            |
|                                               | –16 dB MIN                                                           | –10+20*LOG <sub>10</sub><br>(f/60 MHz) dB MIN |            | –10 dB MIN |
| INDUCTANCE (OCL)<br>(MEDIA SIDE, 0°C–70°C)    | 350 uH MIN (MEASURED AT 100 KHz, 100 mVRMS<br>AND WITH 8 mA DC BIAS) |                                               |            |            |
| CROSSTALK, ADJACENT<br>CHANNELS               | 1 MHz                                                                | 30 MHz                                        | 60 MHz     | 100 MHz    |
|                                               | –35 dB MIN                                                           | –35 dB MIN                                    | –30 dB MIN | –30 dB MIN |
| DIFFERENTIAL TO<br>COMMON MODE<br>REJECTION   | 30 MHz                                                               | 60 MHz                                        | 100 MHz    |            |
|                                               | –42 dB MIN                                                           | –37 dB MIN                                    | –30 dB MIN |            |
| DC RESISTANCE,<br>1/2 WINDING                 | .65 OHMS MAX                                                         |                                               |            |            |
| DC RESISTANCE<br>IMBALANCE                    | ±.065 OHMS MAX (CENTER TAP SYMMETRY)                                 |                                               |            |            |
| INPUT – OUTPUT<br>ISOLATION                   | 1500 VRMS MIN @ 60 SECONDS                                           |                                               |            |            |

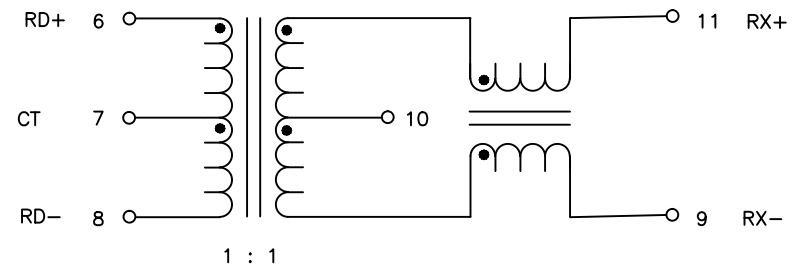
NOTE: f IS FREQUENCY IN MHz.



TRANSMIT



RECEIVE



SCHEMATIC

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PULSE CONFIDENTIAL  
&  
PROPRIETARY

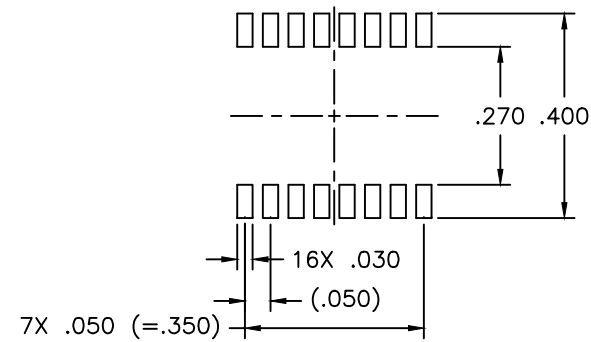
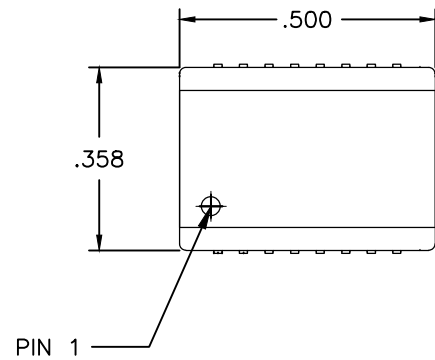
PRODUCT DESCRIPTION  
MDL,SIN,100D,1:1,SMT,HF

PS DRAWING  
PS-2005.002-C

SHEET:  
1

DWG. NO./ PART NO.  
H1102FNL

REV.  
M10



SUGGESTED LAND PATTERN

