

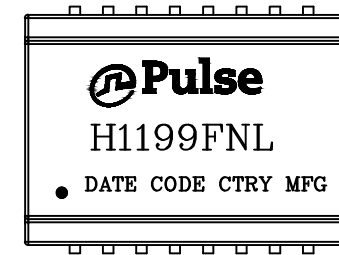
NOTES: UNLESS OTHERWISE SPECIFIED

- |         |                                                                                                                    |
|---------|--------------------------------------------------------------------------------------------------------------------|
| NOTICE: | THIS IS A RoHS COMPLIANT COMPONENT/PRODUCT. ALL ENGINEERING CHANGES MUST HAVE PRIOR APPROVAL BY THE DESIGN CENTER. |
| RoHS-6  |                                   |
- 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

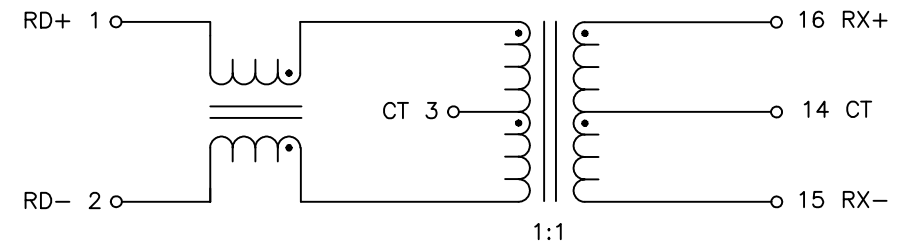
ELECTRICAL CHARACTERISTICS:  
ELECTRICAL: @ +25°C

| PARAMETER                                     | SPECIFICATIONS                                                         |                                               |            |
|-----------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------|------------|
| INSERTION LOSS                                | 100 KHz                                                                | 1-125 MHz                                     |            |
|                                               | -1.2 dB MAX                                                            | -0.2-0.002*f <sup>1.4</sup> 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                                                                  | 10-100 MHz                                    |            |
|                                               | -50 dB MIN                                                             | -55+22*LOG <sub>10</sub> (f/10) dB MIN        |            |
| DIFFERENTIAL TO COMMON<br>MODE REJECTION      | 2 MHz                                                                  | 30-200 MHz                                    |            |
|                                               | -50 dB MIN                                                             | -43+22*LOG <sub>10</sub> (f/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                                             |                                               |            |

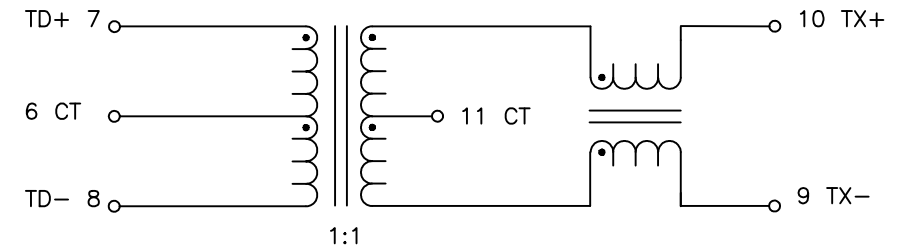
NOTE: f IS FREQUENCY IN MHz.



RECEIVE



TRANSMIT



SCHEMATIC

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PULSE CONFIDENTIAL  
&  
PROPRIETARY

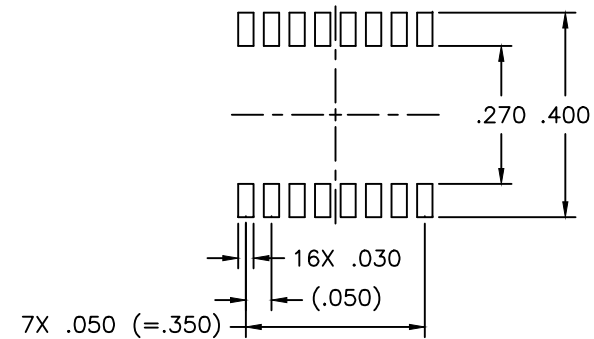
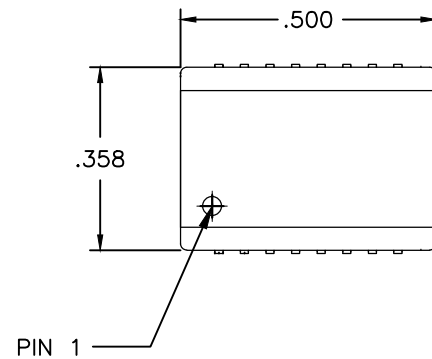
PRODUCT DESCRIPTION  
MDL,SIN,100D,1:1,SMT

PS DRAWING  
PS-2005.002-C

SHEET:  
1

DWG. NO./ PART NO.  
H1199FNL

REV.  
M10



SUGGESTED LAND PATTERN

