


NOTES: UNLESS OTHERWISE SPECIFIED

1.

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

2. PLASTIC: THERMOSET PLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. SOLDERABILITY: CONFORMS TO ANSI/J-STD-002 245°C REFLOW PEAK TEMPERATURE PER IPC/EIA J-STD-003A
4. OPERATING TEMPERATURE: -40°C TO +85°C
5. STORAGE TEMPERATURE: -50°C TO +125°C
6. JEDEC MOISTURE: LEVEL 1.
7. DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.
.XX= ±0.01 [±0.25]
.XXX= ±0.005 [±0.13]

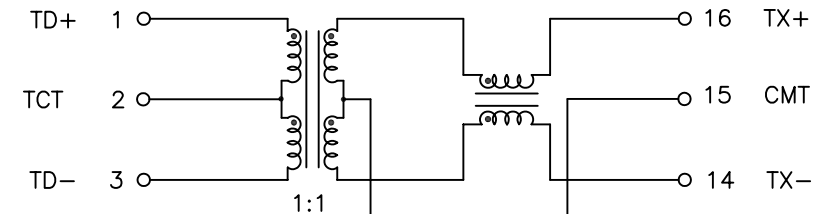
ELECTRICAL CHARACTERISTICS:
ELECTRICAL: @ +25°C

| PARAMETER | SPECIFICATIONS |
|---|---|
| OPERATING TEMP | -40°C ~ +85°C |
| TURNS RATIO | 1.00 ± 2% |
| POLARITY | PER SCHEMATIC |
| INDUCTANCE (OCL) (MEDIA SIDE, -40 ~ +85°C) | 350 uH MIN (MEASURED AT 100 KHz, 100 mVRMS) (AND WITH 8 mA DC BIAS) 440 uH MIN AT +25°C |
| DC RESISTANCE | 1-3, 16-14, 6-8, 11-9 = 1.50 OHMS MAXIMUM |
| LEAKAGE INDUCTANCE 100 KHz, 100 mV | (1-3) WITH (16-14) SHORTED=0.3uH MAX (6-8) WITH (11-9) SHORTED=0.3uH MAX |
| INSERTION LOSS | 1-100 MHz 125 MHz |
| | -1.0 dB MAX -3.0 dB MAX |
| RETURN LOSS Z _{OUT} = 100 OHMS | 5 MHz 30-60 MHz 60-80 MHz |
| | -18 dB MIN -10+20LOG ₁₀ (f/60 MHz) dB MIN -10 dB MIN |
| CROSSTALK (TX-RX) | 1 MHz 5-100 MHz |
| | -62 dB MIN -45 + 21LOG ₁₀ (f/30 MHz) dB MIN |
| DIFFERENTIAL TO COMMON MODE REJECTION | 5-200 MHz |
| | -50 + 17LOG ₁₀ (f/5 MHz) dB MIN |
| ISOLATION (INPUT - OUTPUT) | VOLTAGE |
| | 1650 VRMS 6 SECONDS MAX |

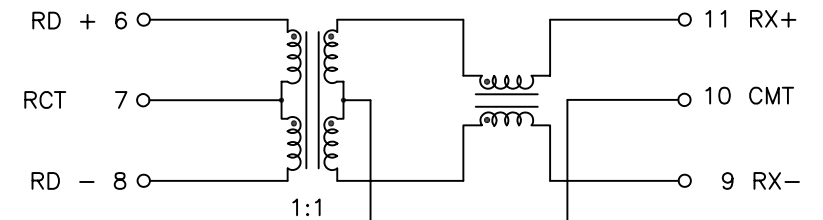
NOTE: f IS FREQUENCY IN MHz.



TRANSMIT



RECEIVE



SCHEMATIC

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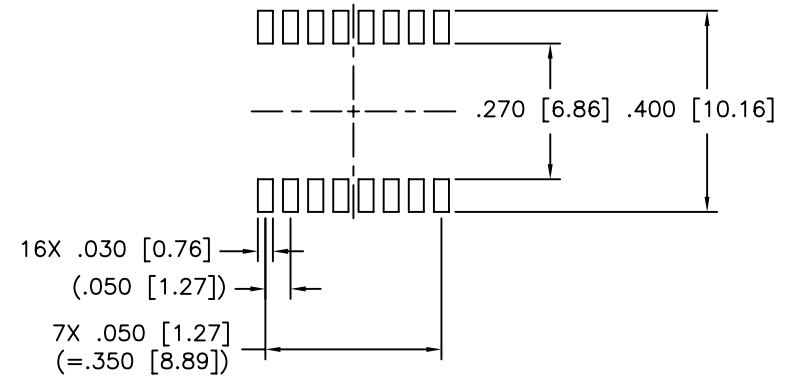
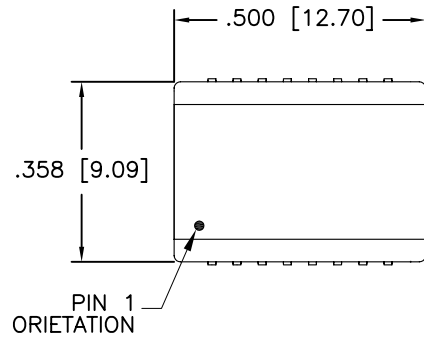
PRODUCT DESCRIPTION
MDL,SIN,100D,1:1,SMT

PS DRAWING
PS-2005.002-D

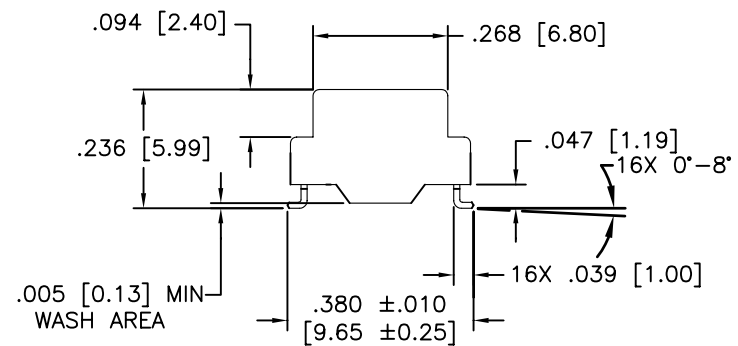
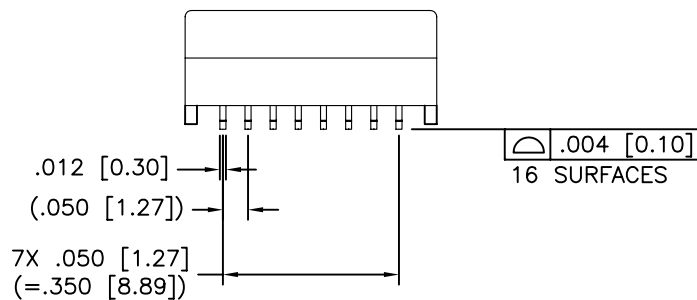
SHEET:
1

DWG. NO./ PART NO.
HX1188FNL

REV.
M13



SUGGESTED LAND PATTERN



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