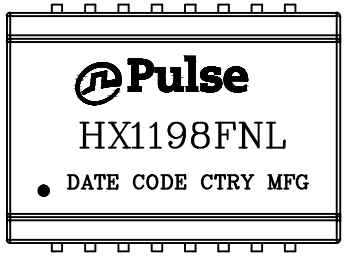
Pulse Electronics
www.pulseelectronics.com

NOTES: UNLESS OTHERWISE SPECIFIED

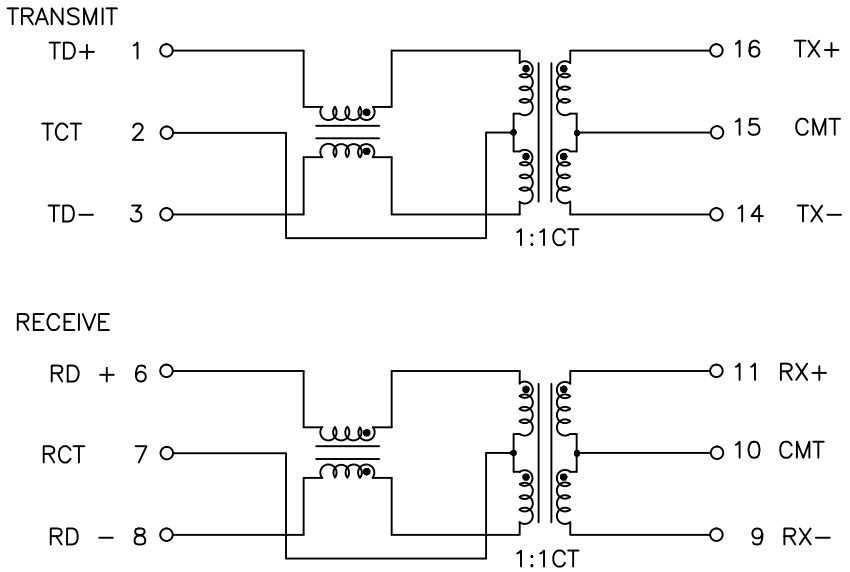
1. | NOTICE: | THIS IS A RoHS COMPLIANT COMPONENT/PRODUCT. ALL ENGINEERING CHANGES MUST HAVE PRIOR APPROVAL BY THE DESIGN CENTER. |
   |---|---|
   | RoHS-6 ✓ | |
2. PLASTIC: THERMOSET PLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. SOLDERABILITY: CONFORMS TO ANSI/J-STD-002 245°C REFLOW 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 WITH THE FOLLOWING TOLERANCES:
   .XX = ±.01
   .XXX = ±.005



ELECTRICAL CHARACTERISTICS:
ELECTRICAL: @ +25°C

PARAMETER	SPECIFICATIONS	
OPERATING TEMP	-40°C ~ +85°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%)	5MHz	30-80MHz
	-18 dB MIN	-16 + 26LOG (f/30MHz) dB MIN
INDUCTANCE (OCL) (MEDIA SIDE, -40°C ~ +85°C)	350 uH MIN	(MEASURED AT 100 KHz, 100 mVRMS AND WITH 8 mA DC BIAS)
CROSSTALK (TX-RX)	1 MHz	5-100MHz
	-62 dB MIN	$-45 + 21LOG_{10}(f/30MHz)$ dB MIN
DIFFERENTIAL TO COMMON MODE REJECTION	5-200MHz	
	$-50+17LOG_{10}(f/5MHz)$ dB MIN	
ISOLATION (INPUT - OUTPUT)	1500 VRMS MIN @ 60 SECONDS	

NOTE: f IS FREQUENCY IN MHz.



SCHEMATIC

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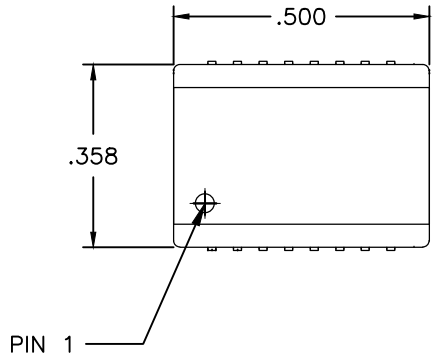
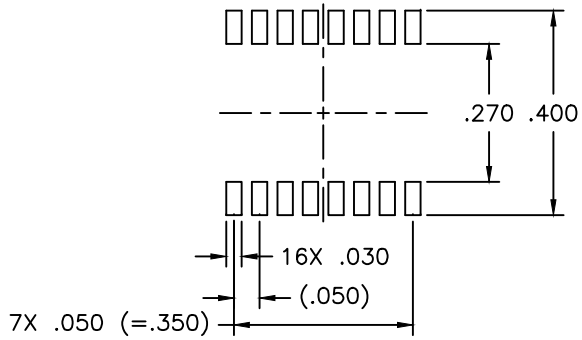
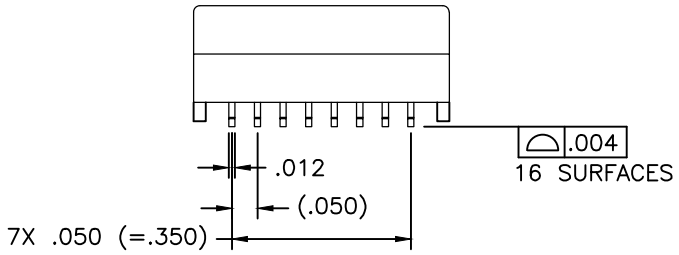
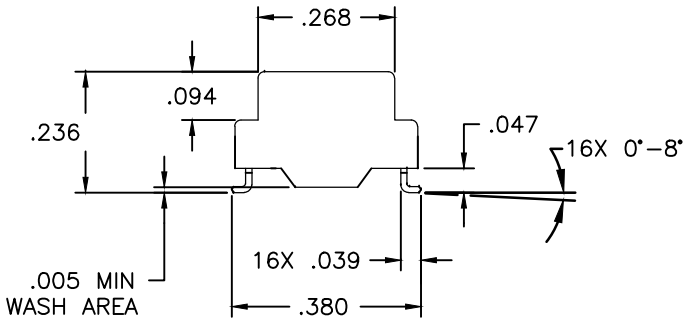
PULSE CONFIDENTIAL & PROPRIETARY	PRODUCT DESCRIPTION	PS DRAWING	SHEET:	DWG. NO./ PART NO.	REV.
	MDL,SIN,100D,1:1,SMT	PS-2005.002-C	1	HX1198FNL	M10





SUGGESTED LAND PATTERN





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PULSE CONFIDENTIAL & PROPRIETARY	PRODUCT DESCRIPTION	PS DRAWING	SHEET:	DWG. NO./ PART NO.	REV.
	MDL,SIN,100D,1:1,SMT	PS–2005.002–C	2	HX1198FNL	M10