Pulse Electronics
www.pulseelectronics.com

NOTES: UNLESS OTHERWISE SPECIFIED

1.

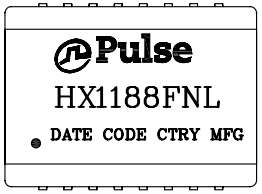
NOTICE:	THIS IS A RoHS COMPLIANT COMPONENT/PRODUCT. ALL ENGINEERING CHANGES MUST HAVE PRIOR APPROVAL BY THE DESIGN CENTER.
RoHS–6 ✓	

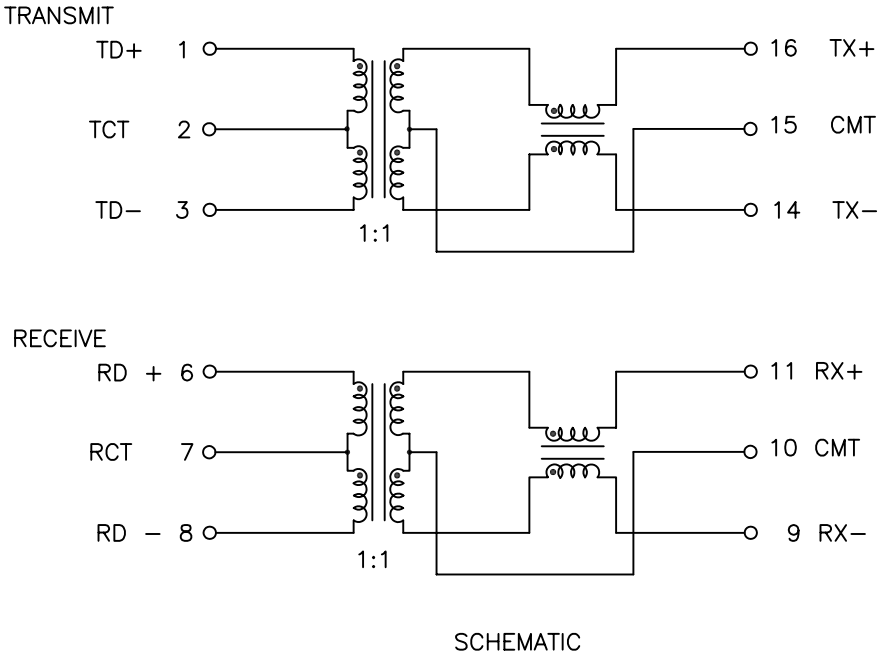
2. PLASTIC: THERMOSET PLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V–0 OR BETTER.
3. SOLDERABILITY: CONFORMS TO ANSI/J–STD–002 245°C REFLOW PEAK TEMPERATURE PER IPC/EIA J–STD–003A
4. OPERATING TEMPERATURE: –40°C TO +85°C
5. STORAGE TEMPERATURE: –50°C TO +125°C
6. JEDEC MOISTURE: LEVEL 1.
7. DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.
   .XX= ±.01 [±0.25]
   .XXX= ±.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	5 MHz	30–60 MHz	60–80 MHz
Z_{OUT} = 100 OHMS	–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	TIME	
	1650 VRMS	6 SECONDS MAX	

NOTE: f IS FREQUENCY IN MHz.





SCHEMATIC

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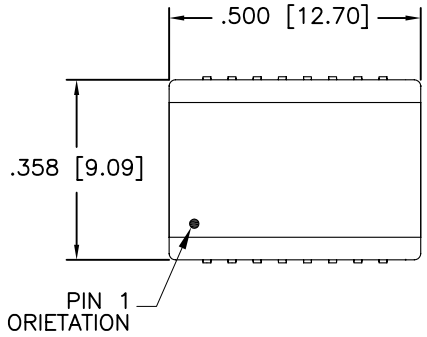
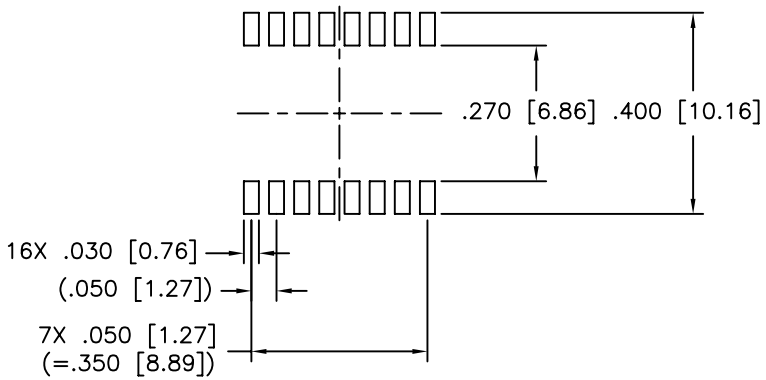
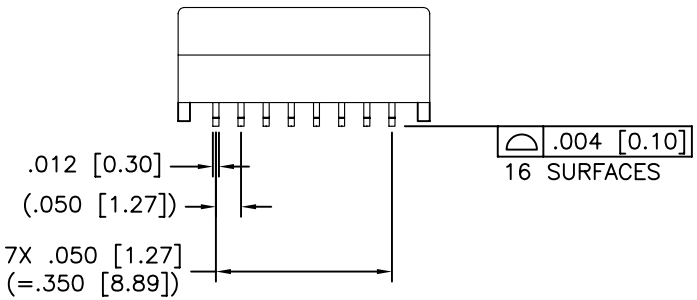
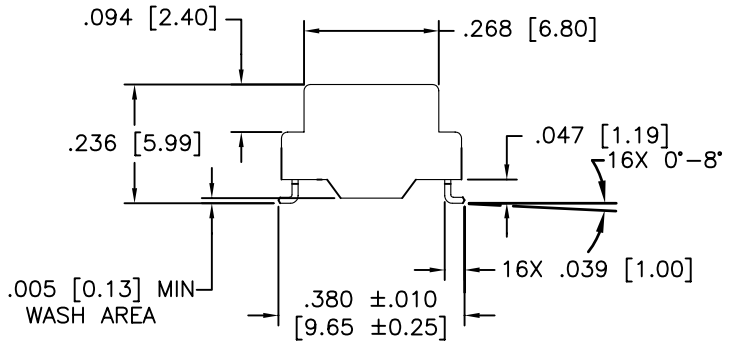
PULSE CONFIDENTIAL & PROPRIETARY	PRODUCT DESCRIPTION	PS DRAWING	SHEET:	DWG. NO./ PART NO.	REV.
	MDL,SIN,100D,1:1,SMT	PS–2005.002–D	1	HX1188FNL	M13





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–D	2	HX1188FNL	M13