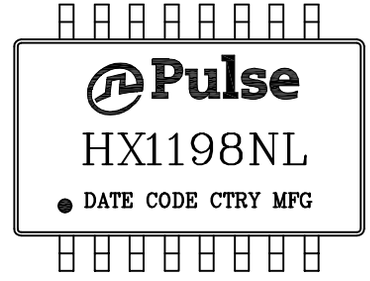
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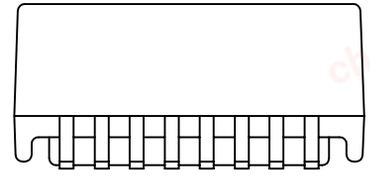
RoHS COMPLIANT

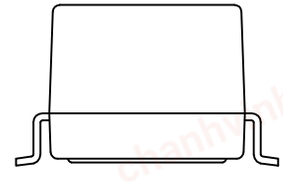
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NOTES:

1. ROHS COMPLIANT
2. HEADER: THERMOSET PLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. STORAGE TEMPERATURE: -50°C TO +125°C
4. COMPLIANCE TO J-STD:
   - A. J-STD-002: SOLDERABILITY AT 245°C REFLOW PROFILE
   - B. J-STD-020: LEVEL 1, NO MOISTURE SENSITIVE
   - C. J-STD-075: R7, 245°C MAXIMUM THROUGH REFLOW SOLDER
5. TO ORDER TAPE & REEL PACKAGING ADD A "T" SUFFIX TO THE PART NUMBER(i.e HX1198NL BECOMES HX1198NLT).







FINAL OUTLINE

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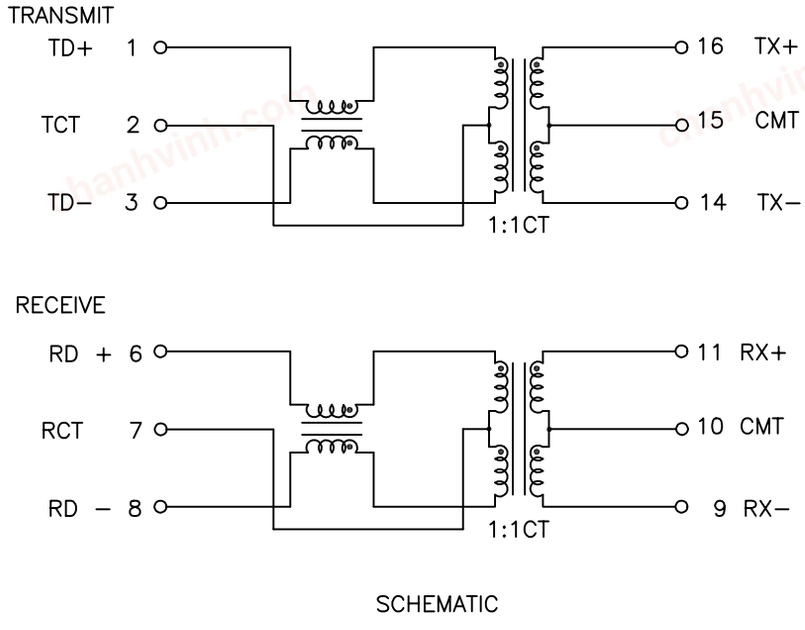
PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,100D,1:1,SMT	HX1198NL-12	PS-2005.001-F	1 OF 3	HX1198NL	A

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RoHS COMPLIANT

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SCHEMATIC

ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED

MEETS IEEE 802.3 SPECIFICATION

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.

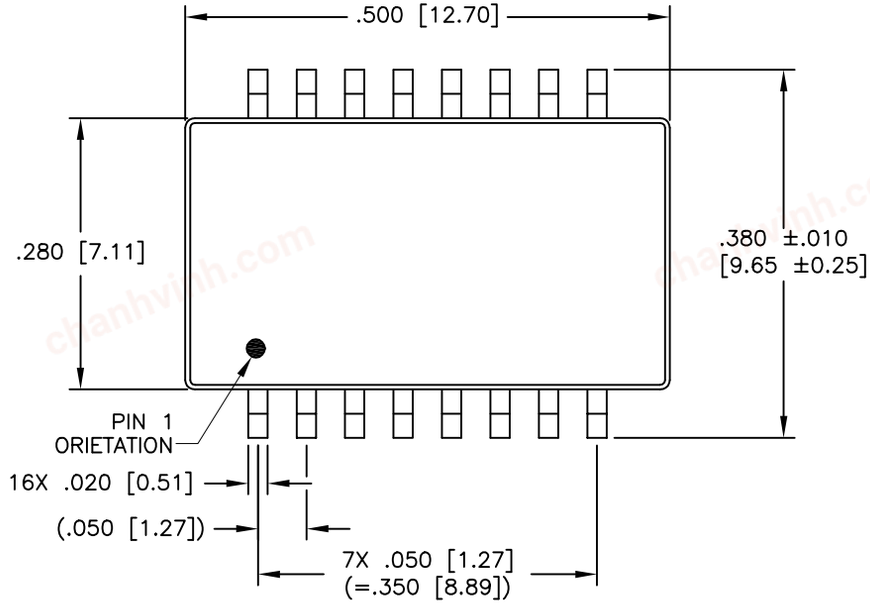
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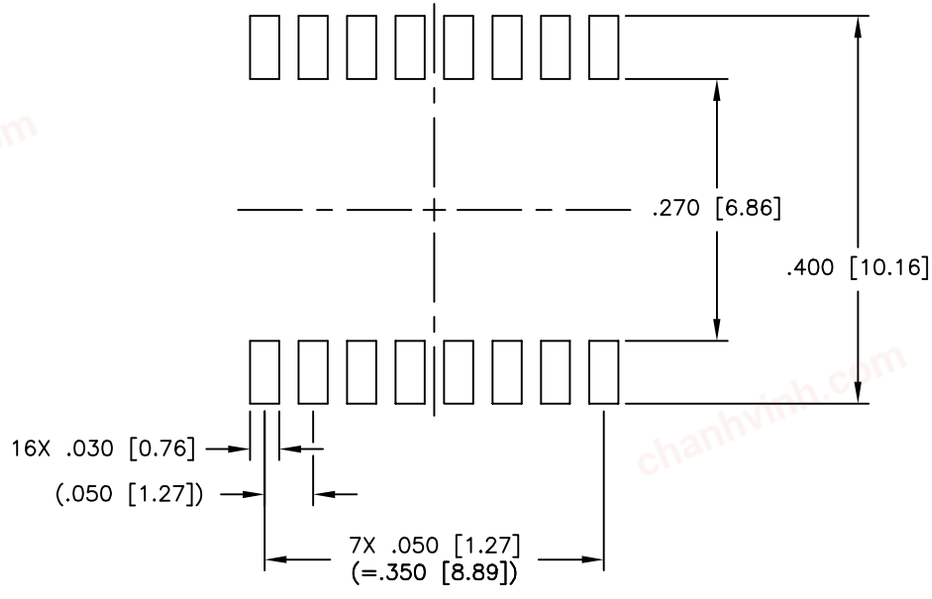
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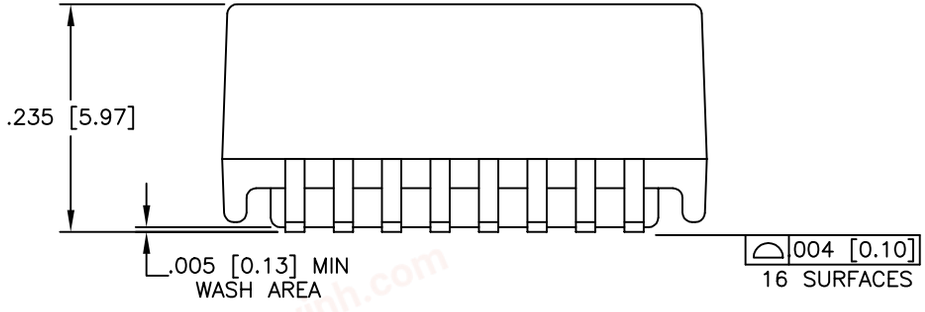
RoHS COMPLIANT

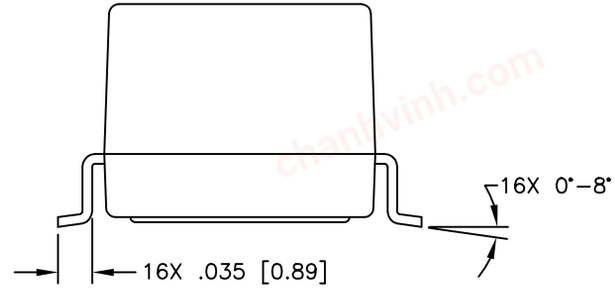
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SUGGESTED LAND PATTERN





DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING
TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.
.XX= ±.01 [±0.25]
.XXX= ±.005 [±0.13]

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MDL,SIN,100D,1:1,SMT	HX1198NL–12	PS–2005.001–F	3 OF 3	HX1198NL	A

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