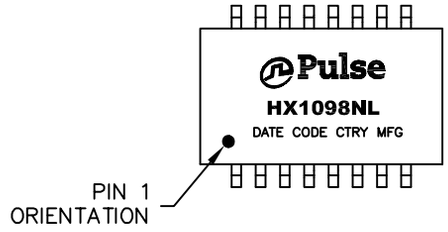
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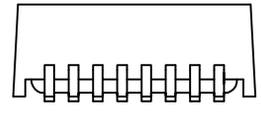
RoHS COMPLIANT

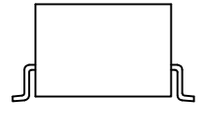
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NOTES:

1. ROHS COMPLIANT
2. PLASTIC: 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 HX1098NL BECOMES HX1098NLT).







FINAL OUTLINE

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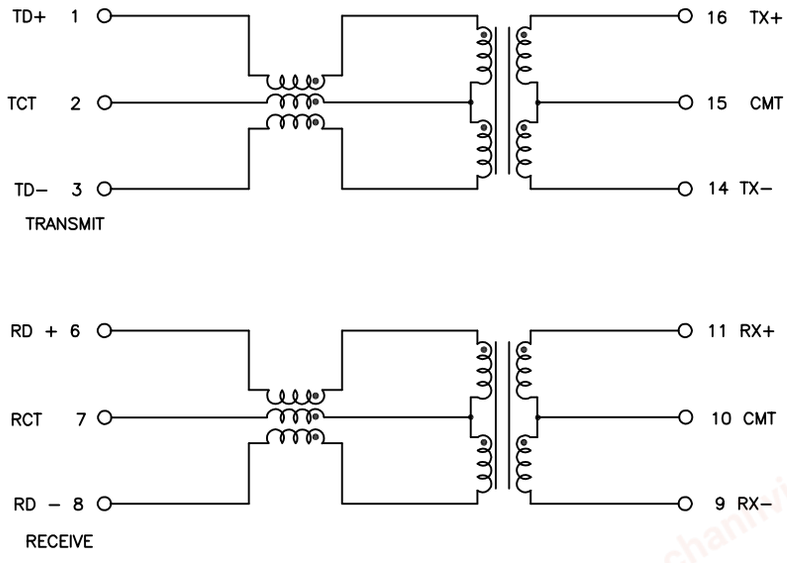
PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,100D,1:1,SM,TU	HX1098NL–10	PS–2266.001–A	1 OF 3	HX1098NL	A

E–MAIL: PRODINFONETWORK@PULSEELECTRONICS.COM(US), ASIA@PULSEELECTRONICS.COM(Asia) PHONE: USA:858 674 8100, GERMANY:49 7032 78060, SINGAPORE:65 6287 8998, SHANGHAI:86 21 62787060, TAIWAN:886 3 4356768

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SCHEMATIC

ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED
MEETS IEEE 802.3 SPECIFICATION

PARAMETER	SPECIFICATIONS			
OPERATING TEMPERATURE	−45°C ~ +85°C			
TURNS RATIO	1.00 ± 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%)	.1−30 MHz	60 MHz	80 MHz	100 MHz
	−18 dB MIN	−14.4 dB MIN	−13.1 dB MIN	−12 dB MIN
INDUCTANCE (OCL) (MEDIA SIDE, −40°CTO+85°C)	350 uH MIN	(MEASURED AT 100 KHz, 100 mVRMS WITH 8mA DC BIAS)		
CROSSTALK, ADJACENT CHANNELS	1 MHz	10−100 MHz		
	−50 dB MIN	$-55+22*\text{LOG}_{10}(f/10)$ dB MIN		
COMMON MODE REJECTION RATIO	.1−30 MHz	60 MHz	100 MHz	200 MHz
	−50 dB MIN	−43 dB MIN	−40 dB MIN	−25 dB MIN
DC RESISTANCE, 1/2 WINDING	.65 OHMS MAX			
DC RESISTANCE IMBALANCE	±.065 OHMS MAX (CENTER TAP SYMMETRY)			
INPUT − OUTPUT ISOLATION	1500 VRMS MIN @ 60 SECONDS			

NOTE: f IS FREQUENCY IN MHz.

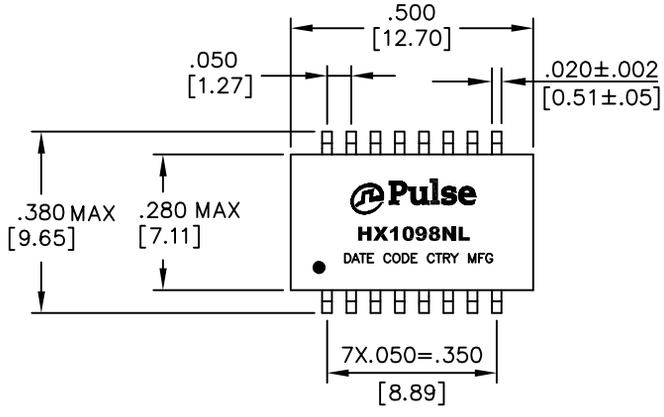
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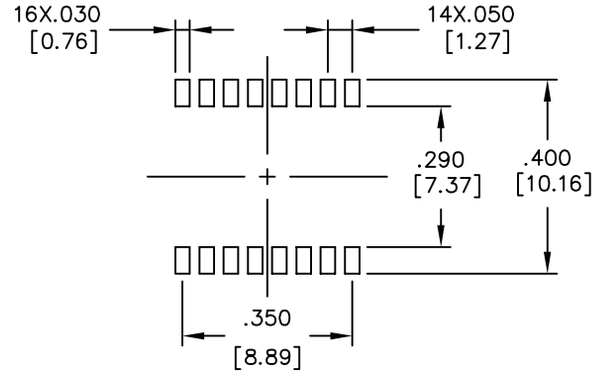
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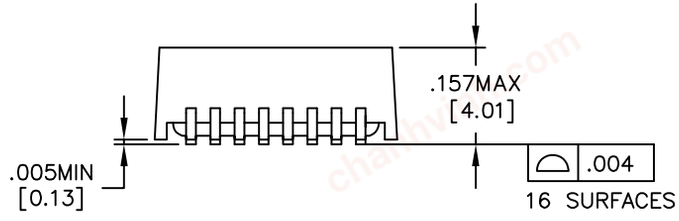
RoHS COMPLIANT

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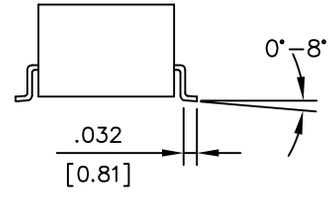




SUGGESTED PAD LAYOUT



(WASH AREA: The lowest point of FG to sitting plane)



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,SM,TU	HX1098NL–10	PS–2266.001–A	3 OF 3	HX1098NL	A

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