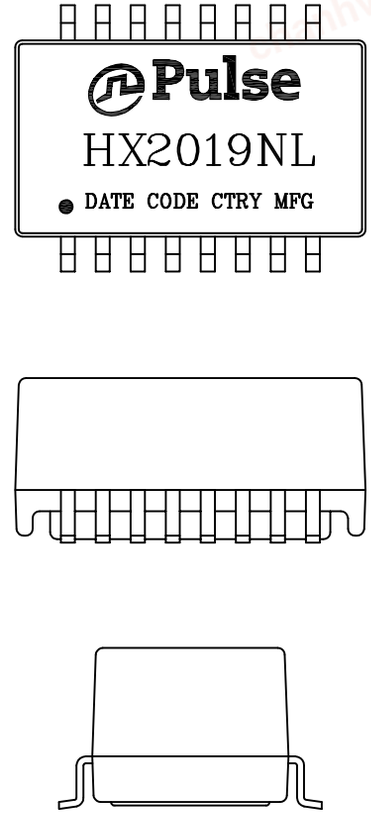
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NOTES:

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 HX2019NL BECOMES HX2019NLT).



FINAL OUTLINE

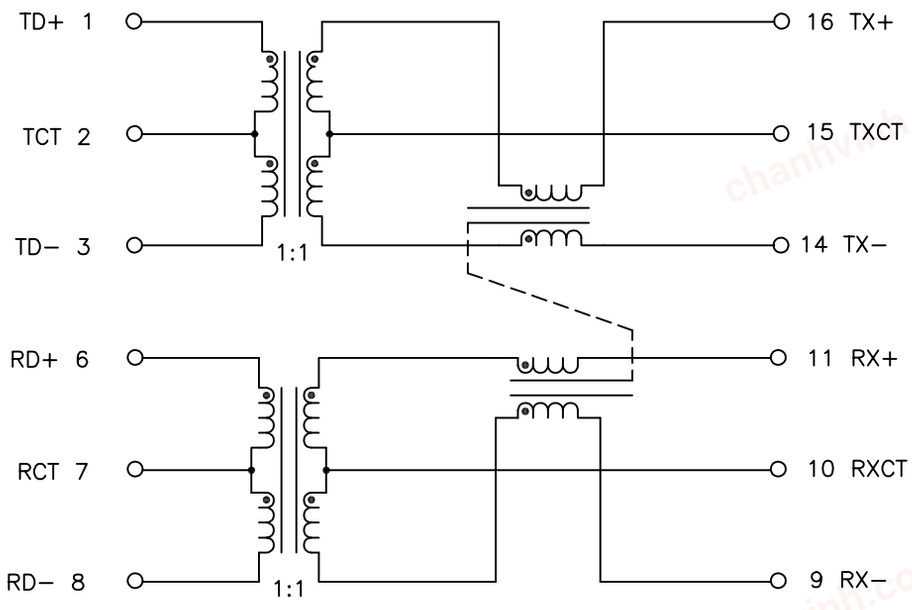
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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,100P,1:1,SMT	HX2019NL–18	PS–2005.001–F	1 OF 3	HX2019NL	B

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SCHEMATIC

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

PARAMETER	SPECIFICATIONS		
OPERATING TEMP	−40°C TO +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, 1000BT (Z OUT = 100 OHM ±15%)	.1−30 MHz	30−60 MHz	60−80 MHz
	−16 dB MIN	$-10+20*\log_{10}$ (f/60 MHz) dB MIN	−10 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, ADJACENT CHANNELS	1 MHz	10−100 MHz	
	−50 dB MIN	$-55+22*\log_{10}(f/10)$ dB MIN	
COMMON MODE REJECTION RATIO	2 MHz	30−200 MHz	
	−45 dB MIN	$-7+28*\log_{10}(f/200)$ dB MIN	
DC RESISTANCE, 1/2 WINDING	.75 OHMS MAX		
DC CURRENT/VOLTAGE, RATING − PSE PINS	350 mA MAX, @ 57 V (CONTINUOUS)		
DC RESISTANCE IMBALANCE	±.065 OHMS MAX (CENTER TAP SYMMETRY)		
INPUT − OUTPUT ISOLATION	1500 VRMS MIN AT 60 SECONDS		

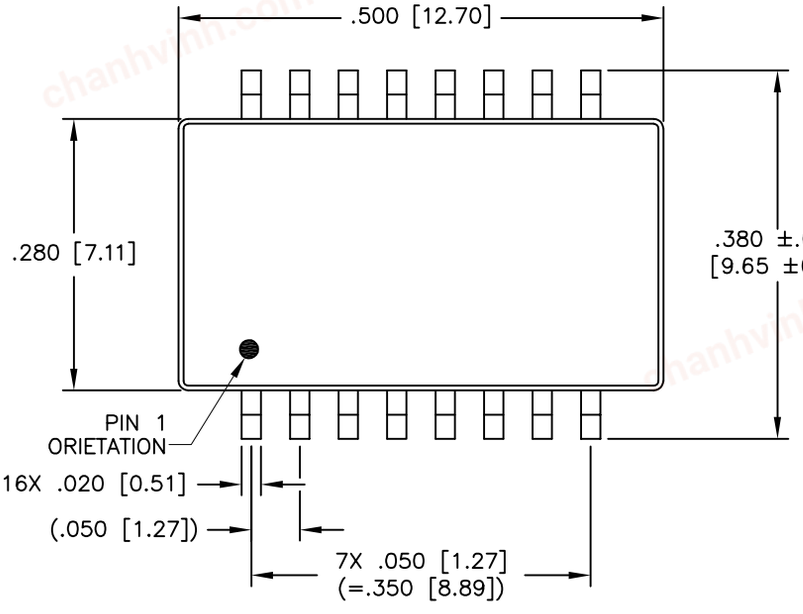
NOTES: f IS FREQUENCY IN MHz.
* = 325 uH AT −40°C

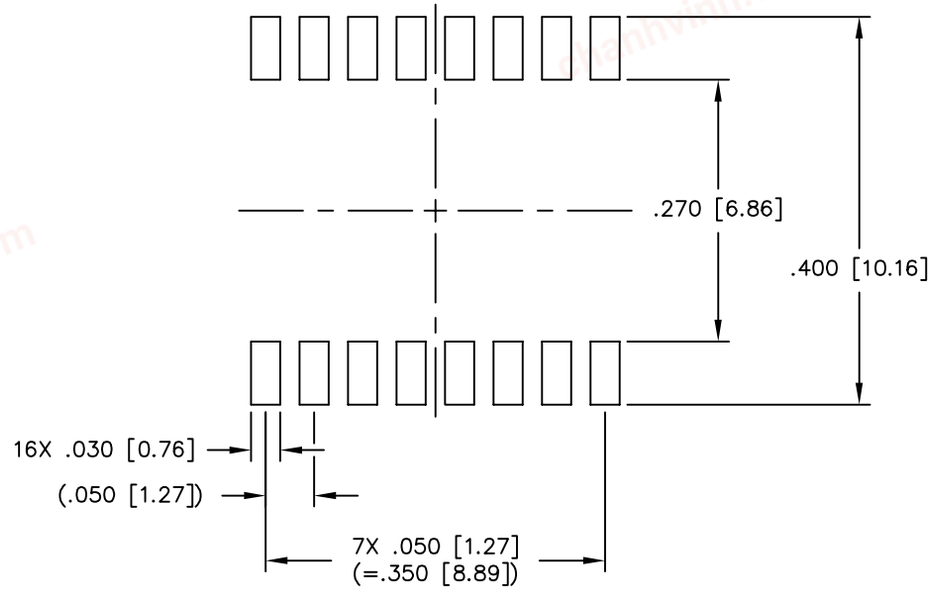
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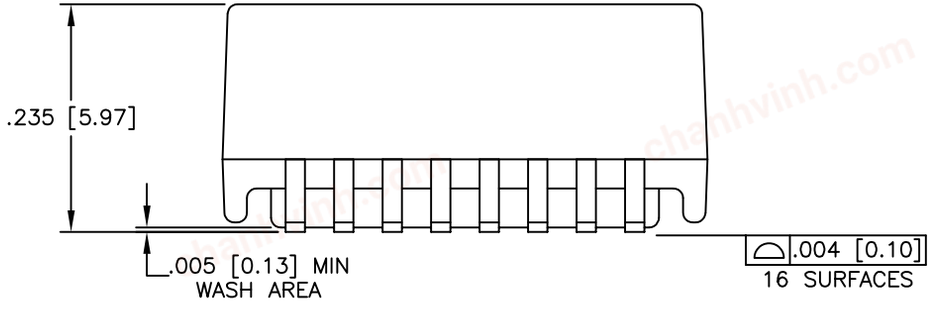
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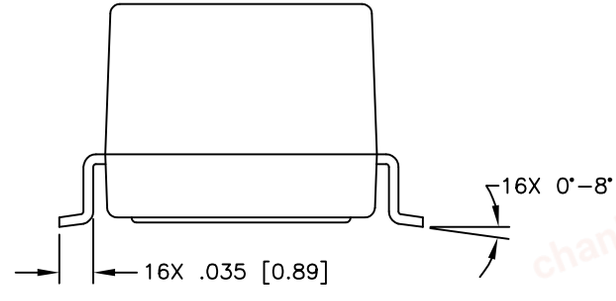
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SUGGESTED LAND PATTERN





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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