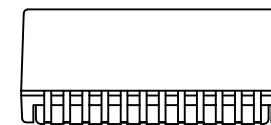
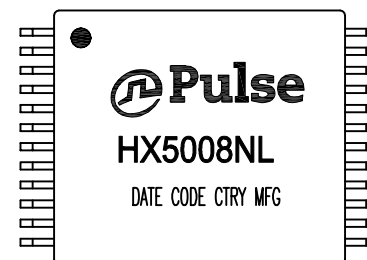


NOTES:

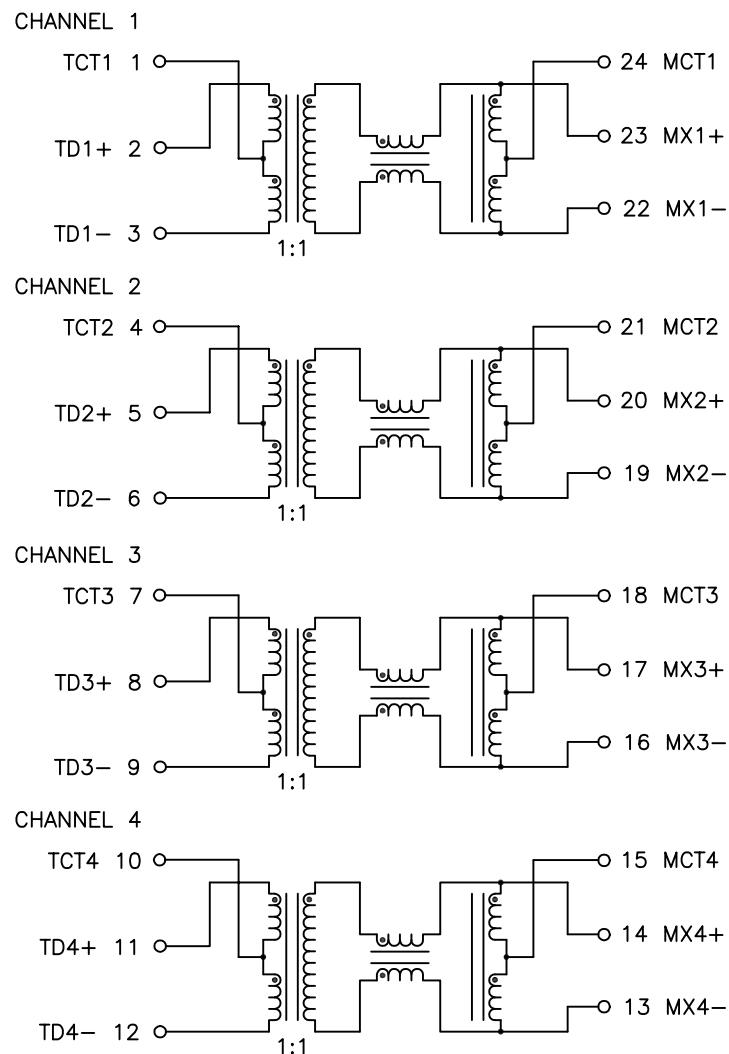
1. ROHS COMPLIANT
2. HEADER: THERMOSET PLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. STORAGE TEMPERATURE: -50°C TO +125°C
4. COMPLIANCE TO J-STD:
 - A. J-STD-002: SOLDERABILITY AT 245°C REFLOW PROFILE
 - B. J-STD-020: LEVEL 1, NO MOISTURE SENSITIVE
 - C. J-STD-075: R7, 245°C MAXIMUM THROUGH REFLOW SOLDER
5. TO ORDER TAPE & REEL PACKAGING ADD A "T" SUFFIX TO THE PART NUMBER(i.e HX5008NL BECOMES HX5008NLT).



FINAL OUTLINE

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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,1GD,1:1,SM,OH	HX5008NL-14	PS-0118.001-D	1 OF 3	HX5008NL	A

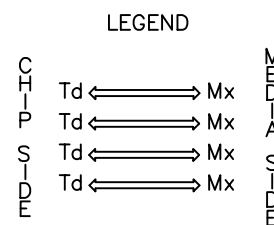


SCHEMATIC

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

PARAMETER	SPECIFICATIONS		
OPERATING TEMP	−40°C − +85 °C		
URNS RATIO	1 : 1 ±2%		
POLARITY	PER SCHEMATIC		
OCL, TRANSMIT CHANNEL	325 uh MIN. WITH 8mA DC BIAS, −40 TO 85 °C		
INSERTION LOSS	100 KHz	1−100 MHz	125 MHz
	−1.2 dB MAX	−1.0 dB MAX	−3.0 dB MAX
RETURN LOSS (Z OUT = 100 OHM ±15%)	1−40 MHz	40−100 MHz	
	−16 dB MIN	−10+20*LOG ₁₀ (f/80) dB MIN	
CROSSTALK (TX−RX)	1 MHz	30−100 MHz	
	−50 dB MIN	−55+24*LOG ₁₀ (f/10) dB MIN	
DIFFERENTIAL TO COMMON MODE REJECTION	2 MHz	30−100 MHz	
	−50 dB MIN	−43+22*LOG ₁₀ (f/30) dB MIN	
INPUT − OUTPUT ISOLATION	1500 VRMS MIN		

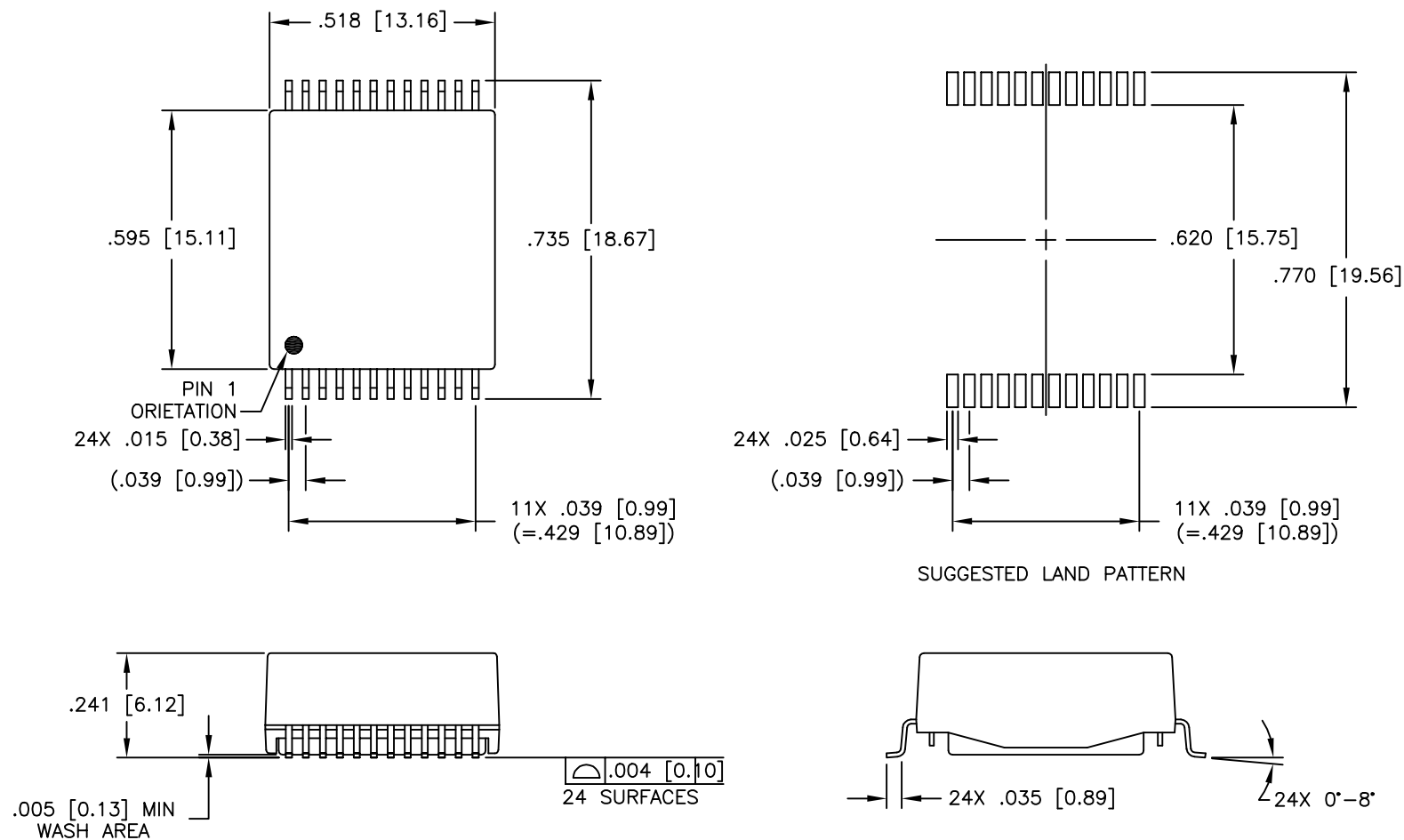
NOTE: f IS FREQUENCY IN MHZ.



ALL CHANNELS ARE
IN PHASE BETWEEN
INPUT AND OUTPUT

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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,1GD,1:1,SM,OH	HX5008NL-14	PS-0118.001-D	2 OF 3	HX5008NL	A



DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.
 .XX= ± 0.02 [± 0.5]
 .XXX= ± 0.010 [± 0.25]

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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,1GD,1:1,SM,OH	HX5008NL-14	PS-0118.001-D	3 OF 3	HX5008NL	A

Mouser Electronics

Authorized Distributor

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[HX5008NL](#) [HX5008NLT](#)