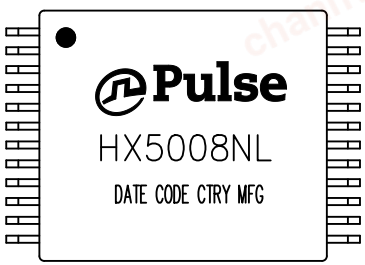
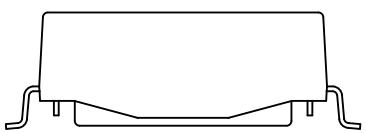
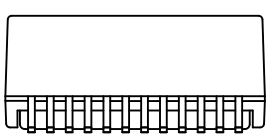
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NOTES:

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: MOISTURE SENSITIVE LEVEL 1
   - 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).





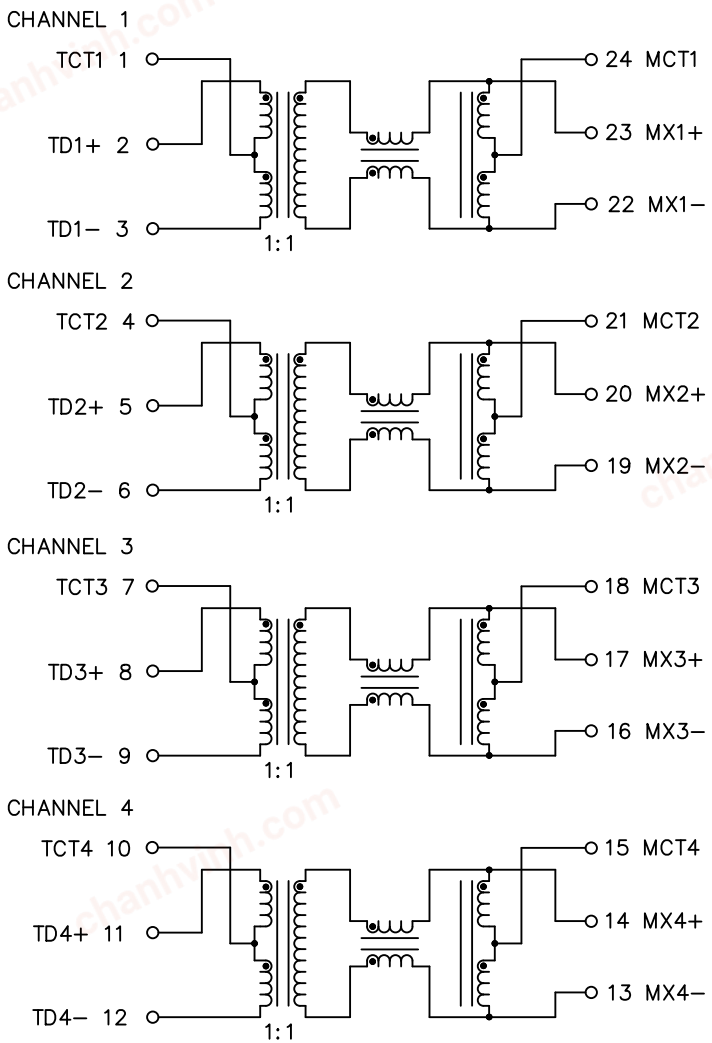


FINAL OUTLINE

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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,1GD,1:1,SM,OH	HX5008NL-16	PS-0118.001-E	1 OF 4	HX5008NL	B

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SCHEMATIC

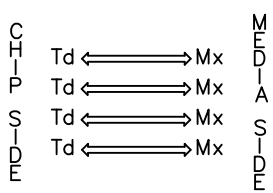
ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED

MEETS IEEE 802.3 SPECIFICATION

PARAMETER	SPECIFICATIONS		
OPERATING TEMP	–40°C TO +85 °C		
TURNS RATIO	1 : 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.

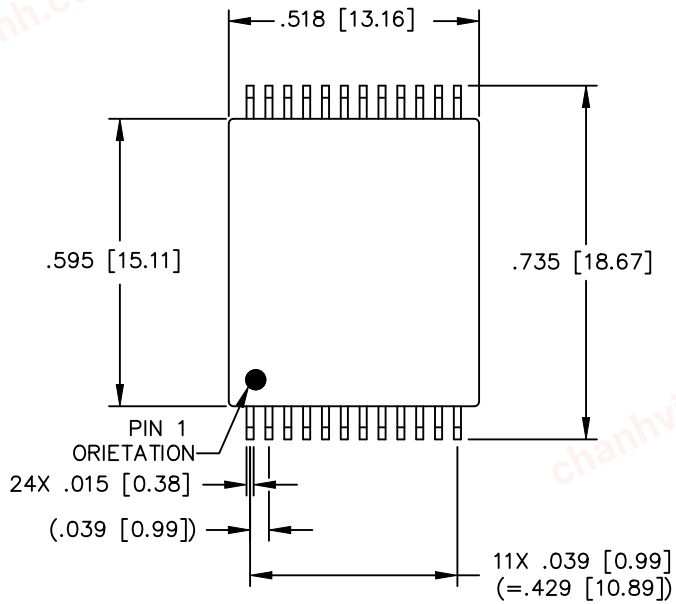
LEGEND

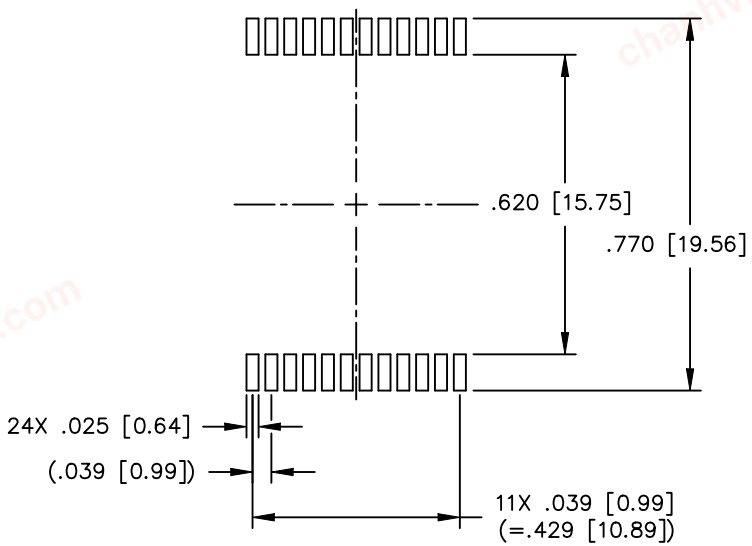


ALL CHANNELS ARE IN PHASE BETWEEN INPUT AND OUTPUT

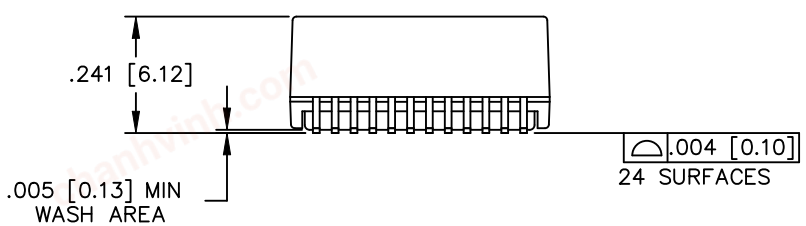
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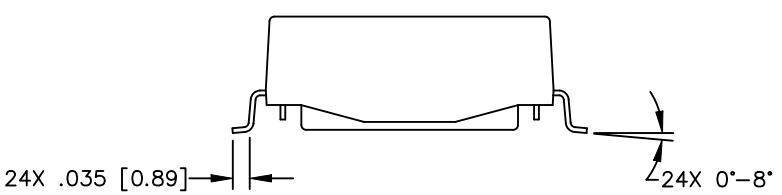
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SUGGESTED LAND PATTERN





DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING
TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.
.XX= ±.02 [±0.5]
.XXX= ±.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–16	PS–0118.001–E	3 OF 4	HX5008NL	B

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YAGEO GROUP PULSE

CHANGE RECORD

REV	DESCRIPTION	DATE	AUTHOR
A	NEW DS	30JUL15	–
B	UPDATE DS PER THE LATEST DS FORMAT	11NOV26	BEZHOU

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