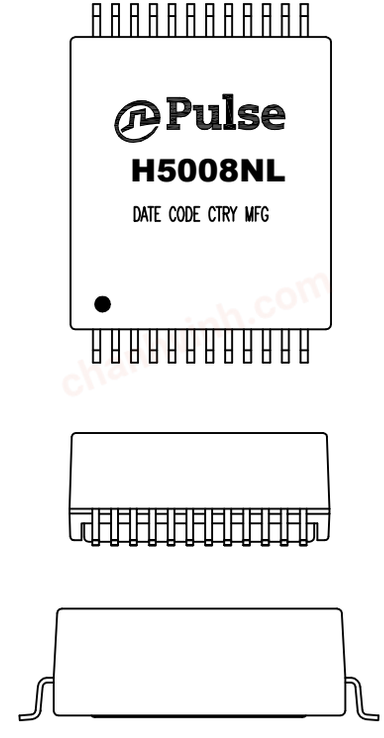
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NOTES:

1. ROHS COMPLIANT
2. HEADER: THERMOSET PLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V–0 OR BETTER.
3. STORAGE TEMPERATURE: –20°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 H5008NL BECOMES H5008NLT).



FINAL OUTLINE

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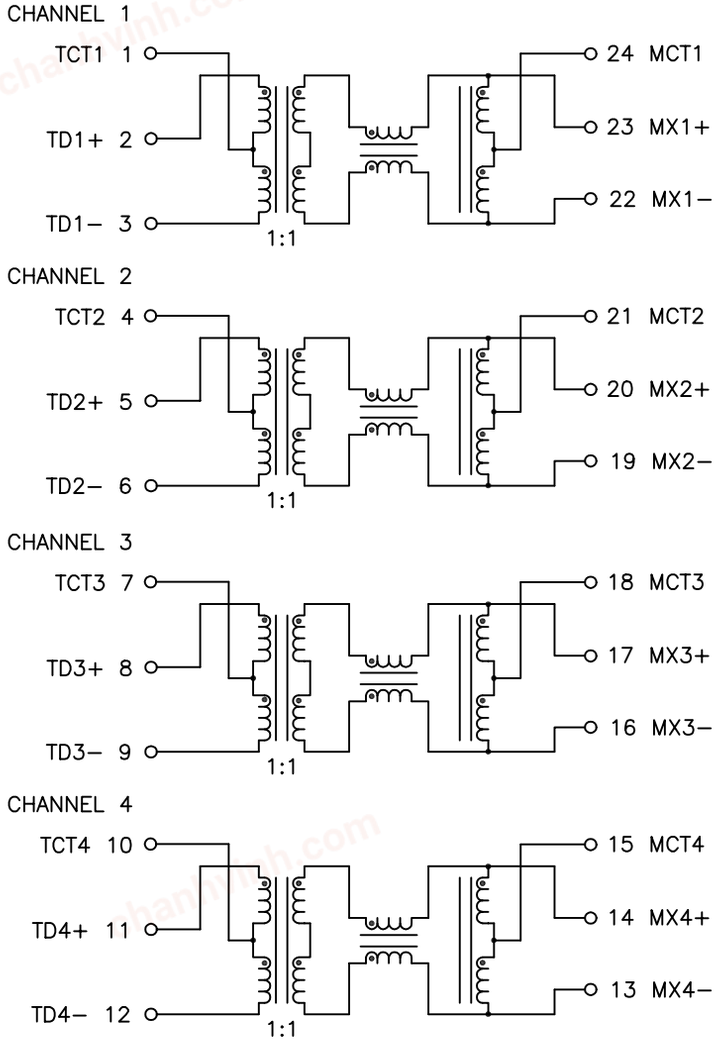
PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,1GD,1:1,SM	H5008NL–17	PS–2268.001–C	1 OF 3	H5008NL	A

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SCHEMATIC

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

PARAMETER	SPECIFICATIONS	
OPERATING TEMP	0°C – 70°C	
TURNS RATIO	1.00 ± 2%	
POLARITY	PER SCHEMATIC	
INSERTION LOSS	100 KHz	1–125 MHz
	−1.2 dB MAX	$-0.2-0.002*\sqrt{f}^{1.4}$ dB MAX
RETURN LOSS (Z OUT = 100 OHM ±15%)	.1–40 MHz	40–100 MHz
	−16 dB MIN	$-10+20*\log_{10}(f/80\ \text{MHz})$ dB MIN
INDUCTANCE (OCL) (MEDIA SIDE, 0–70°C)	350 uH MIN (MEASURED AT 100 KHz, 100 mVRMS 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
	−50 dB MIN	$-15+20*\log_{10}(f/200)$ dB MIN
DC RESISTANCE, 1/2 WINDING	.65 OHMS MAX	
DC RESISTANCE BALANCE	±.065 OHMS MAX (CENTER TAP SYMMETRY)	
INPUT – OUTPUT ISOLATION	1500 VRMS MIN @ 60 SECONDS	

NOTE: f IS FREQUENCY IN MHz.

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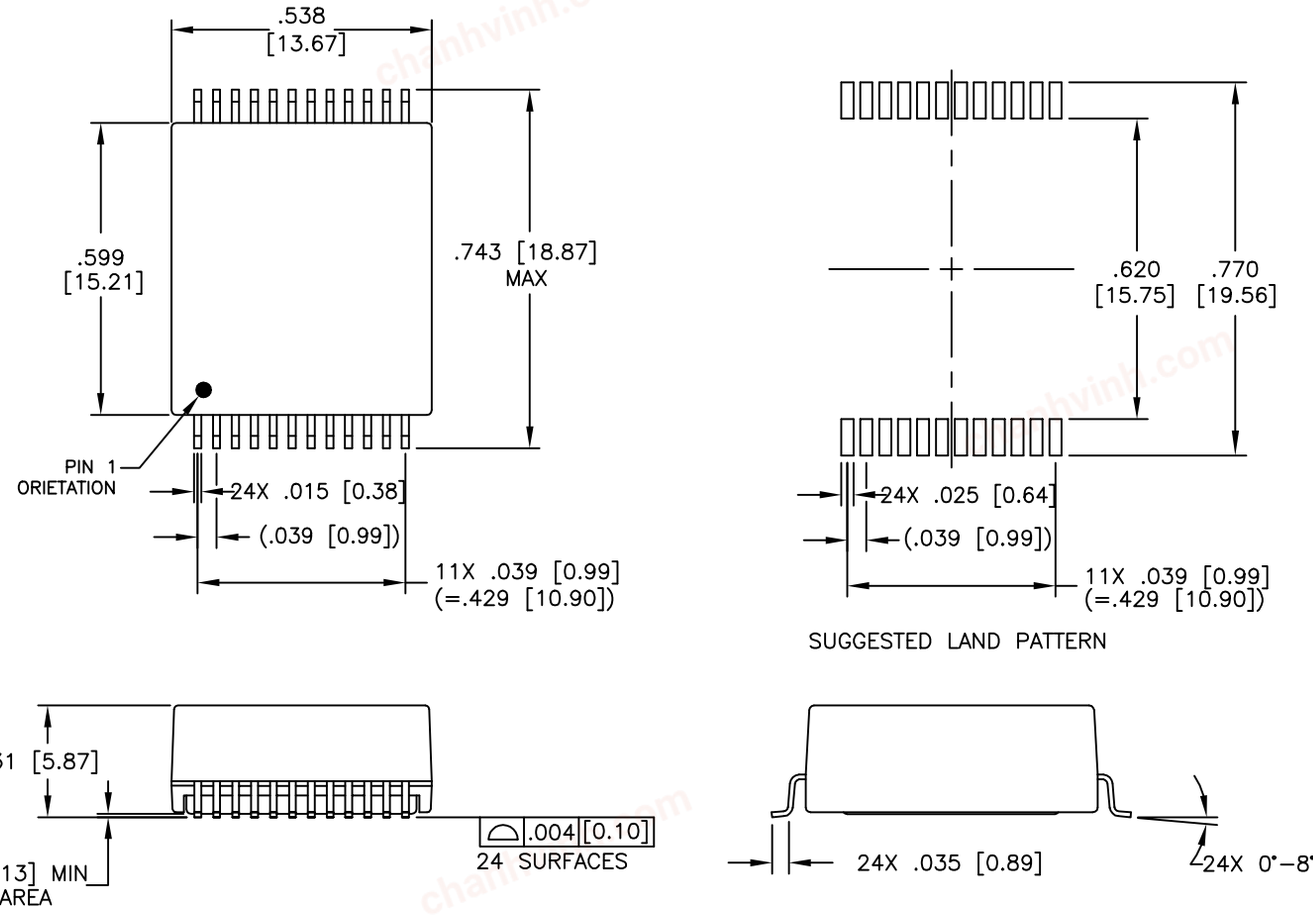
PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,1GD,1:1,SM	H5008NL–17	PS–2268.001–C	2 OF 3	H5008NL	A

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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	H5008NL–17	PS–2268.001–C	3 OF 3	H5008NL	A

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