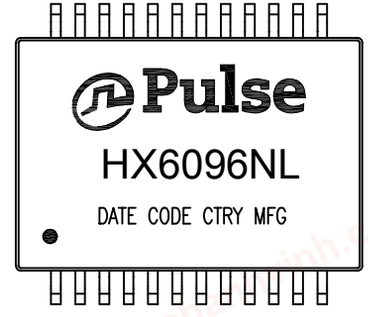
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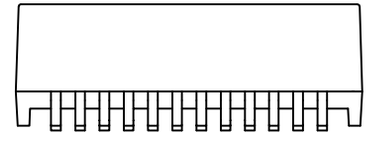
RoHS COMPLIANT

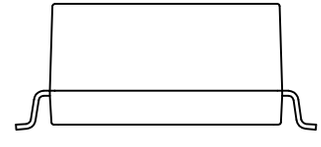
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NOTES:

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 HX6096NL BECOMES HX6096NLT).







FINAL OUTLINE

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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,1GP,1:1,SM,TU	HX6096NL–13	PS–2473.001–A	1 OF 3	HX6096NL	A

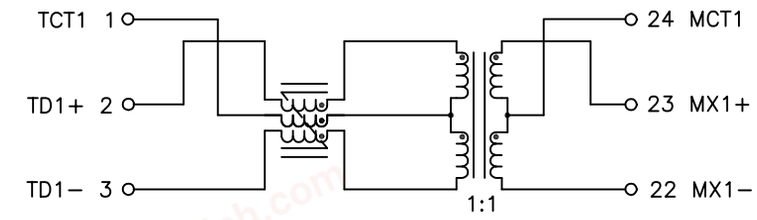
E–MAIL: PRODINFONETWORK@PULSEELECTRONICS.COM(US), ASIA@PULSEELECTRONICS.COM(Asia) PHONE: USA:858 674 8100, GERMANY:49 7032 78060, SINGAPORE:65 6287 8998, SHANGHAI:86 21 62787060, TAIWAN:886 3 4356768

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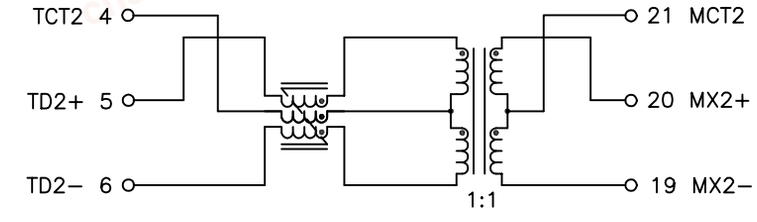
RoHS COMPLIANT

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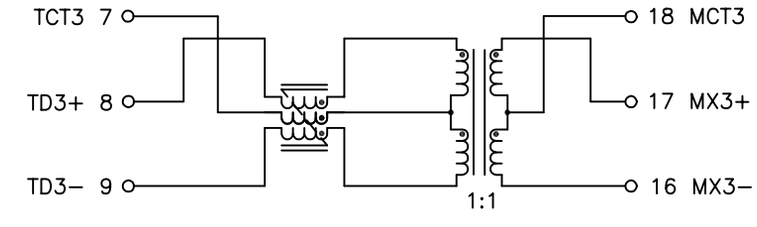
CHANNEL A



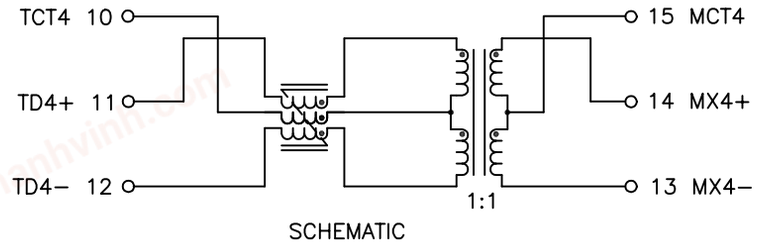
CHANNEL B



CHANNEL C

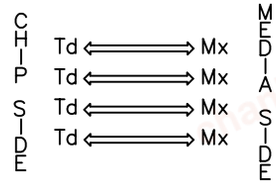


CHANNEL D



SCHEMATIC

LEGEND



ALL CHANNELS ARE IN PHASE BETWEEN INPUT AND OUTPUT

ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED

MEETS IEEE 802.3 SPECIFICATION

PARAMETER	SPECIFICATIONS	
OPERATING TEMPERATURE	−40°C − +85°C	
TURNS RATIO	1.00 ± 2%	
INTERWINDING CAPACITANCE (Cww)	20 pF TYP. @ 1 MHz	
LEAKAGE INDUCTANCE (LL)	250 nH TYP. @ 100 kHz, 100 mV	
TURNS RATIO	1.00 ± 2%	
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, −40 − +85°C)	350 uH MIN @ +25°C 300 uH MIN CROSS −40°C~85°C (MEASURED AT 100 KHz, 100 mVRMS WITH 24 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 CURRENT/ VOLTAGE RATING	720 mA, @ 57 V (CONTINUOUS)	
DC RESISTANCE, 1/2 WINDING	.30 OHMS TYP.	
DC RESISTANCE BALANCE	±.05 OHMS MAX (CENTER TAP SYMMETRY)	
INPUT − OUTPUT ISOLATION	1500 VRMS MIN @ 60 SECONDS	

NOTE: f IS FREQUENCY IN MHz.

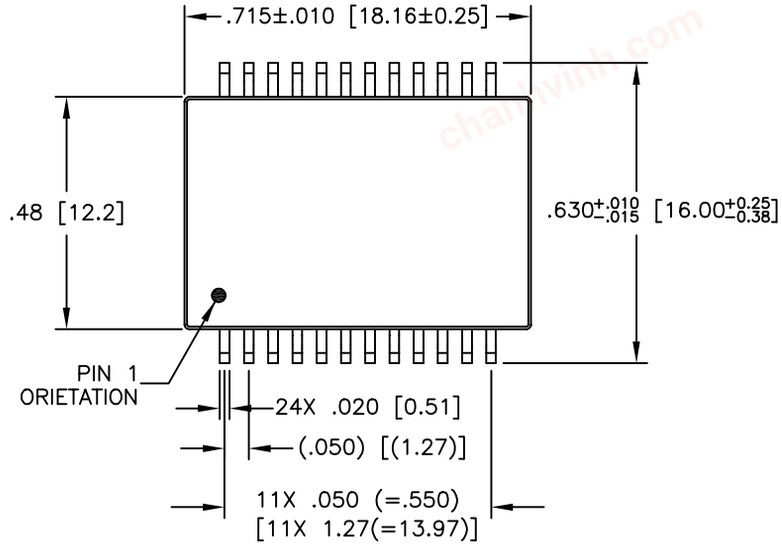
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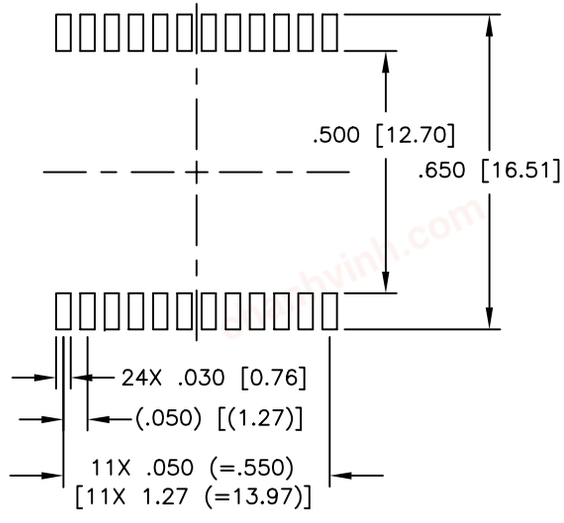
E−MAIL: PRODINFONETWORK@PULSEELECTRONICS.COM(US), ASIA@PULSEELECTRONICS.COM(Asia) PHONE: USA:858 674 8100, GERMANY:49 7032 78060, SINGAPORE:65 6287 8998, SHANGHAI:86 21 62787060, TAIWAN:886 3 4356768

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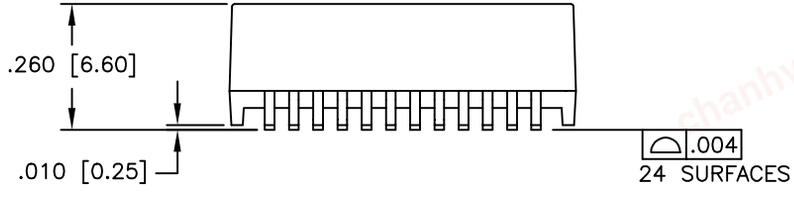
RoHS COMPLIANT

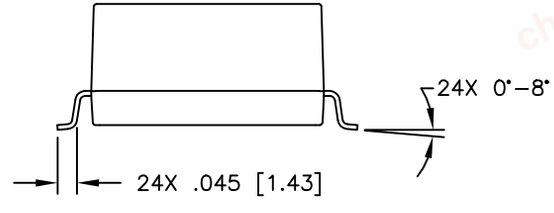
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SUGGESTED LAND PATTERN





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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MDL,SIN,1GP,1:1,SM,TU	HX6096NL–13	PS–2473.001–A	3 OF 3	HX6096NL	A

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