



NOTES:

- 1. ROHS COMPLIANT
- 2. HEADER: THERMOPLASTIC 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 HX5020NL BECOMES HX5020NLT).

Pulse					
HX5020NL					
 DATE CODE CTRY MFG 					





FINAL OUTLINE

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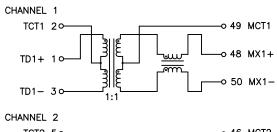
PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,DUAL,1GD,1:1,SMT	HX5020NL-13	PS-5020.001-B	1 OF 3	HX5020NL	А

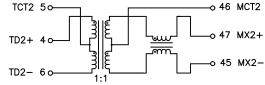
E-MAIL: PRODINFONETWORK@PULSEELECTRONICS.COM(US). ASIA@PUI SFFI FCTRONICS.COM(Asia)

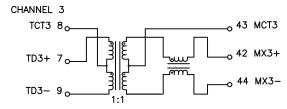
PHONE: USA:858 674 8100, GERMANY:49 7032 78060, SINGAPORE:65 6287 8998, SHANGHAI:86 21 62787060, TAIWAN:886 3 4356768

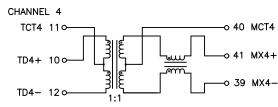


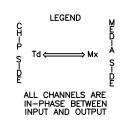


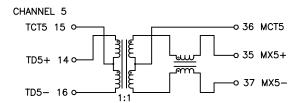


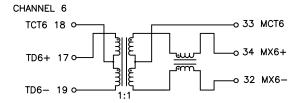


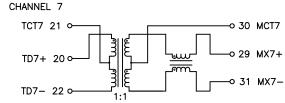


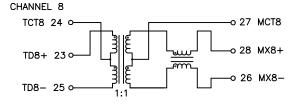












SCHEMATIC

ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED

MEETS IEEE 802.3 SPECIFICATION

PARAMETER	SPECIFICATIONS			
OPERATING TEMP	-40°C ~ +85°C			
TURNS RATIO		1 : 1 ±2%		
POLARITY	PER SCHEMATIC			
	100 KHz	1-125 MHz		
INSERTION LOSS	-1.2 dB MAX	-0.2-0.002*f ^{1.4} dB MAX		
RETURN LOSS	.1-40 MHz	40-100 MHz		
$(Z \text{ OUT} = 100 \text{ OHM } \pm 15\%)$	-16 dB MIN	-10+20*LOG ₁₀ (f/80 MHz) 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		
	1 MHz	10-100 MHz		
CROSSTALK, ADJACENT CHANNELS	-50 dB MIN	-55+22*LOG ₁₀ (f/10) dB MIN		
COMMON MODE	2 MHz	30-200 MHz		
REJECTION RATIO	-50 dB MIN	-15+20*LOG ₁₀ (f/200) dB MIN		
DC RESISTANCE, 1/2 WINDING	.65 OHMS MAX			
DC RESISTANCE IMBALANCE	±.065 OHMS MAX (CENTER TAP SYMMETRY)			
DC CURRENT/VOLTAGE RATING – PSE PINS	nA, @ 57 V (CONTINUOUS)			
INPUT – OUTPUT ISOLATION	1500 VRMS MIN @ 60 SECONDS			

NOTE: f IS FREQUENCY IN MHz.

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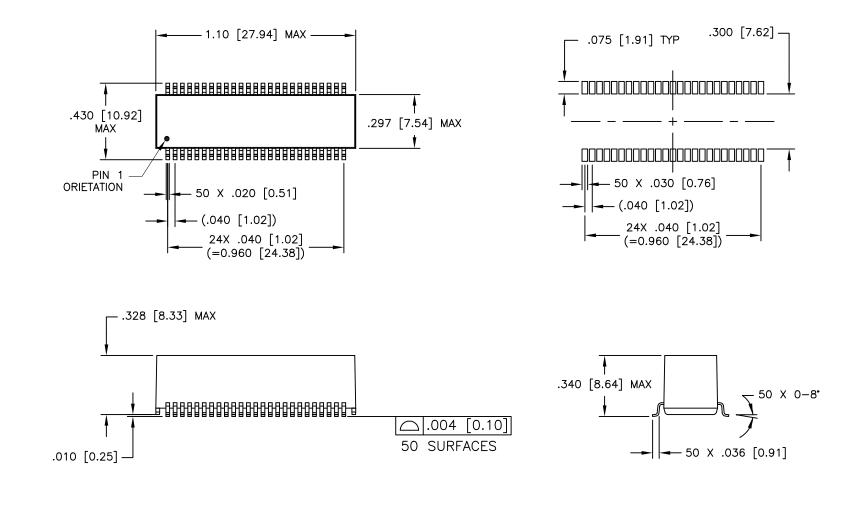
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MDL,DUAL,1GD,1:1,SMT	HX5020NL-13	PS-5020.001-B	2 OF 3	HX5020NL	A

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DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY. $XX = \pm.01$ [± 0.25] $XXX = \pm.005$ [± 0.13]

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