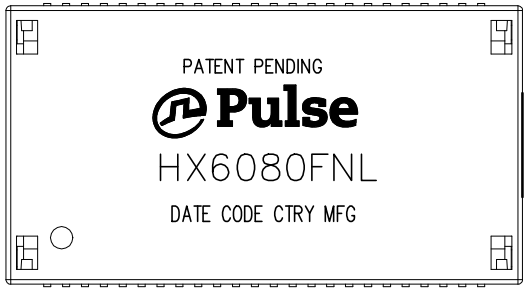
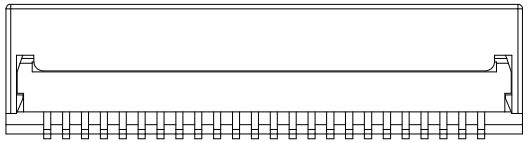
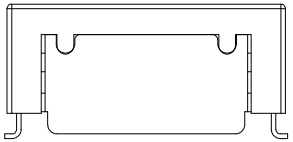
NOTES:

1. ROHS COMPLIANT
2. HEADER: DAP (DIALLYL PHTHALATE) 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 HX6080FNL BECOMES HX6080FNLT).





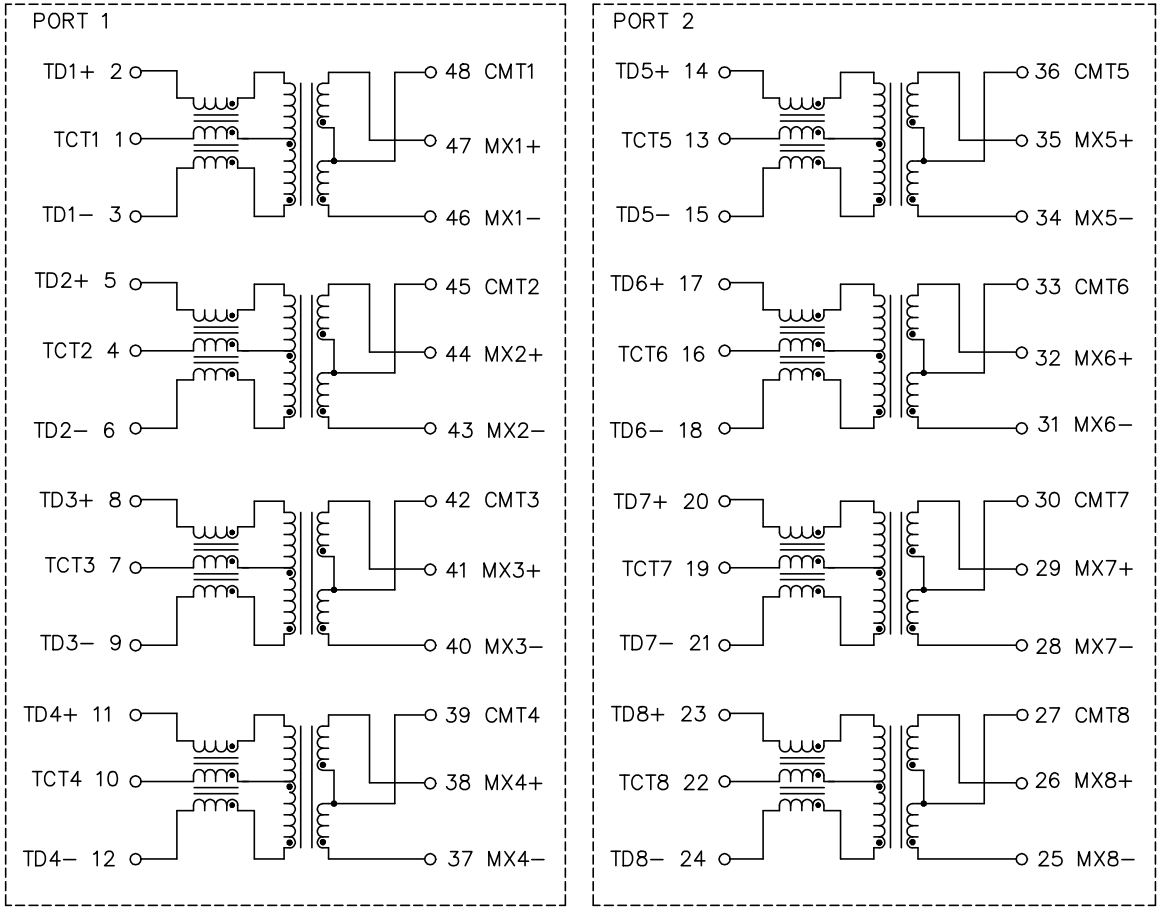


FINAL OUTLINE

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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,DUAL,1GP,1:1,SM,TU	HX6080FNL-11	PS-2747.001-D	1 OF 3	HX6080FNL	B

Pulse Electronics
www.pulseelectronics.com



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 ±3%		
POLARITY	PER SCHEMATIC		
INSERTION LOSS	100 KHz	1−125 MHz	
	−1.2 dB MAX	$-0.2-0.002*f^{1.4}$ dB MAX	
RETURN LOSS, 1000BT (Z OUT = 100 OHM ±15%)	.1−30 MHz	30−60 MHz	60−80 MHz
	−16 dB MIN	$-10+20*\log_{10}(f/60\ \text{MHz})$ dB MIN	−10 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)	
CROSSTALK, ADJACENT CHANNELS	1 MHz	10−100 MHz	
	−50 dB MIN	$-55+22*\log_{10}(f/10)$ dB MIN	
DIFFERENTIAL TO COMMON MODE REJECTION	2 MHz	30−200 MHz	
	−50 dB MIN	$-43+22*\log_{10}(f/30)$ dB MIN	
DC RESISTANCE, 1/2 WINDING	.65 OHMS MAX		
DC RESISTANCE IMBALANCE	±.065 OHMS MAX (CENTER TAP SYMMETRY)		
DC CURRRENT/ VOLTAGE RATING	350 mA @ 57 V (CONTINUOUS)		
INPUT − OUTPUT ISOLATION	1500 VRMS MIN @ 60 SECONDS		

NOTE: f IS FREQUENCY IN MHz.

LEGEND

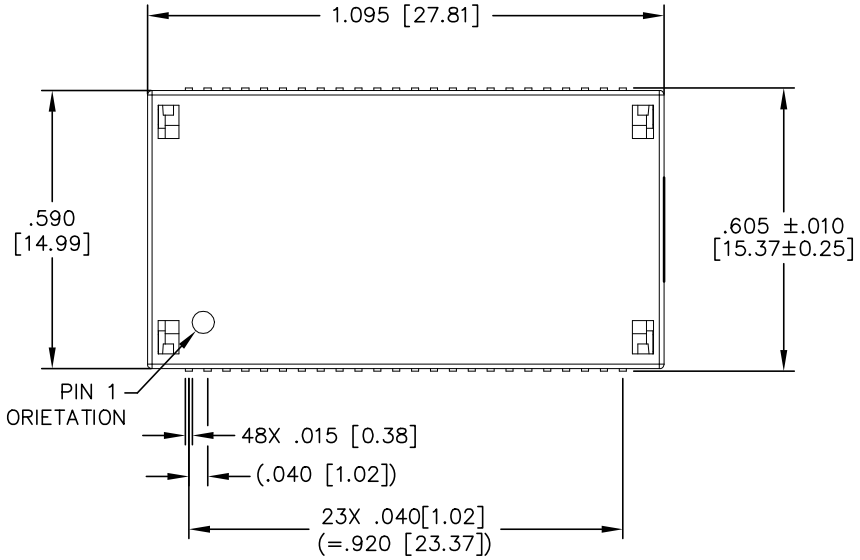
CHIP SIDE: Td ⟺ Mx
MEDIA SIDE: Td ⟺ Mx

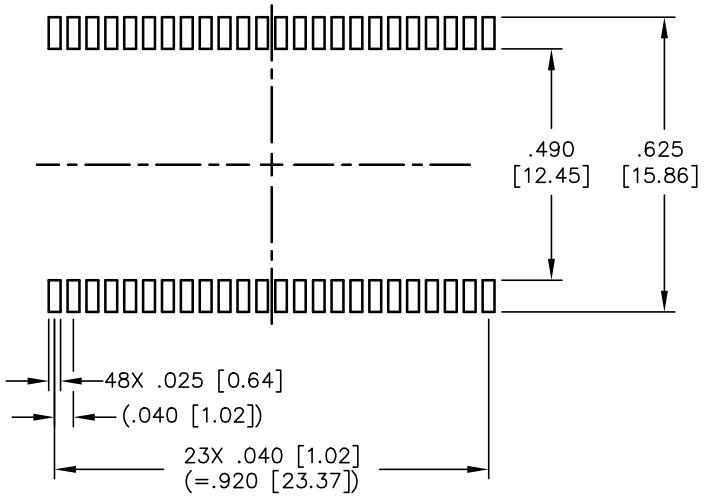
ALL CHANNELS ARE IN PHASE BETWEEN INPUT AND OUTPUT

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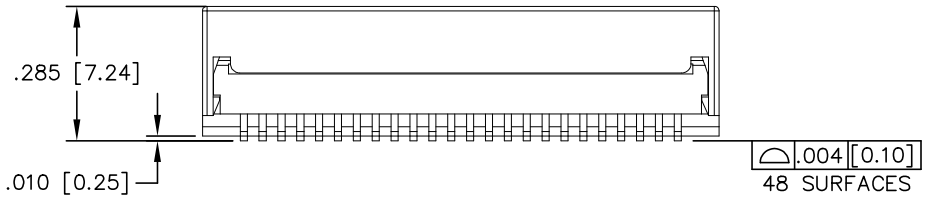
PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,DUAL,1GP,1:1,SM,TU	HX6080FNL−11	PS−2747.001−D	2 OF 3	HX6080FNL	B

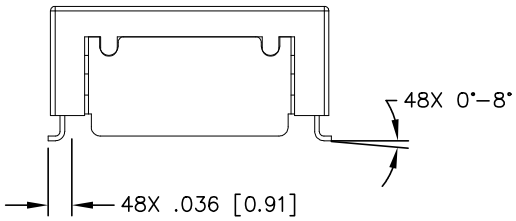
E−MAIL:PRODINFONETWORK@PULSEELECTRONICS.COM(US), ASIA@PULSEELECTRONICS.COM(Asia) PHONE: USA: 858 674 8100, GERMANY: 49 7032 78060, SINGAPORE: 65 6287 8998, SHANGHAI: 86 21 62787060, TAIWAN: 886 3 4356768





SUGGESTED LAND PATTERN





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

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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,DUAL,1GP,1:1,SM,TU	HX6080FNL–11	PS–2747.001–D	3 OF 3	HX6080FNL	B