



NOTES:

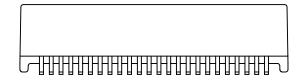
- ROHS COMPLIANT
- 2. HEADER: THERMOSET PLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
- 3. STORAGE TEMPERATURE: -50°C TO +125°C
- 4. COMPLIANCE TO J-STD:
 - A. J-STD-002: SOLDERABILITY AT 245°C REFLOW PROFILE
 - B. J-STD-020: LEVEL 1, NO MOISTURE SENSITIVE
 - C. J-STD-075: R7, 245°C MAXIMUM THROUGH REFLOW SOLDER
- 5. TO ORDER TAPE & REEL PACKAGING ADD A "T" SUFFIX TO THE PART NUMBER(i.e HX6080NL BECOMES HX6080NLT).

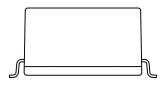




HX6080NL

DATE CODE CTRY MFG





FINAL OUTLINE

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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,DUAL,1GP,1:1,SM,TU	HX6080NL-13	PS-2007.001-C	1 OF 3	HX6080NL	A





PORT 1 PORT 2 TD1+ 20 -0 48 CMT1 TD5+ 14 o -0 36 CMT5 TCT1 10--0 35 MX5+ ^O 47 MX1+ TCT5 13 ℃ TD1- 30-TD5- 15 o -O 46 MX1− O 34 MX5− TD2+ 5 o--0 45 CMT2 TD6+ 17 o -0 33 CMT6 ____ ൸ TCT2 4 0-0 44 MX2+ TCT6 16 ℃ O 32 MX6+ -о 31 МХ6-TD2- 6 0--O 43 MX2− I TD6- 18 ℃ -o 42 CMT3 -0 30 CMT7 TD3+ 80-TD7+ 20 ↔ \overline{m} TCT3 7 o--o 29 MX7+ O 41 MX3+ TCT7 19 0-TD3- 9 o-TD7- 21 o-O 40 MX3--0 28 MX7-TD8+ 23 o-TD4+ 11 o--0 39 CMT4 -0 27 CMT8 <u>ത്ത</u> ൸ TCT4 10 o-TCT8 22 0o 26 MX8+ o 38 MX4+ \overline{m} TD4- 12 O--0 37 MX4-TD8- 24 0 -0 25 MX8-

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 ±3%						
POLARITY	PER SCHEMATIC						
	100	KHz	1-125 MHz				
INSERTION LOSS	-1.2 c	IB MAX	-0.2-0.002*f ^{^1.4}	dB MAX			
DETURN LOSS 1000PT	.1-3	0 MHz	30-60 MHz	60-80 MHz			
RETURN LOSS, 1000BT (Z OUT = 100 OHM $\pm 15\%$)	-16 d	IB MIN	-10+20*LOG ₁₀ (f/60 MHz) dB MIN	-10 dB MIN			
INDUCTANCE (OCL) (MEDIA SIDE, -40°C~+85°C)	350 u	H MIN	(MEASURED AT 100 KHz, 100 mVRM AND WITH 8 mA DC BIAS				
	1 N	1Hz	10-100 MHz				
CROSSTALK, ADJACENT CHANNELS	-50 d	IB MIN	-55+22*LOG ₁₀ (f/10) dB MIN				
DIFFERENTIAL TO COMMON	2 N	ИHz	30-200 MHz				
DIFFERENTIAL TO COMMON MODE REJECTION	-50 d	B MIN	-43+22*LOG ₁₀ (f/30) dB MIN				
DC RESISTANCE, 1/2 WINDING	.65 OHMS MAX						
DC RESISTANCE IMBALANCE	±.06	5 OHM	S MAX (CENTER TAP	SYMMETRY)			
INPUT — OUTPUT ISOLATION	1500 VRMS MIN @ 60 SECONDS						

NOTE: f IS FREQUENCY IN MHz.

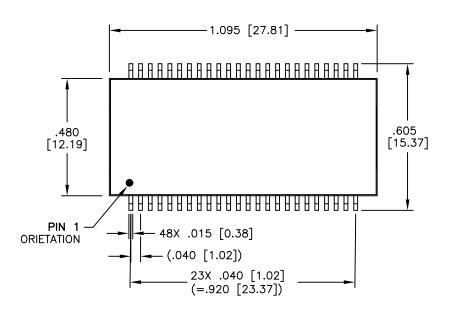
	LEGEND	
	$Td \longleftrightarrow Mx$	
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	$Td \longleftrightarrow Mx$	
İN	LL CHANNELS ARE I PHASE BETWEEN IPUT AND OUTPUT	

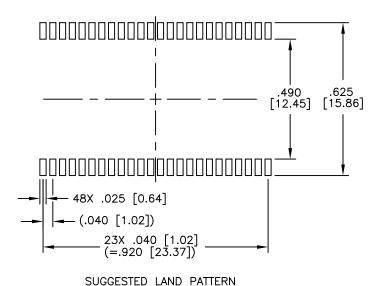
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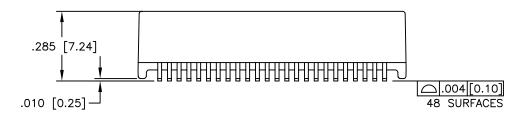
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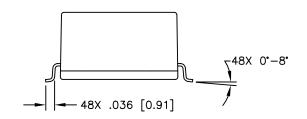












DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY. .XX= \pm .02 [\pm 0.5] .XXX= \pm .010 [\pm 0.25]

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Mouser Electronics

Authorized Distributor

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Pulse:

HX6080NLT