



# THE DATASHEET OF HX6101NL



ERIAL WITH FLAMMABILITY

) +125°C

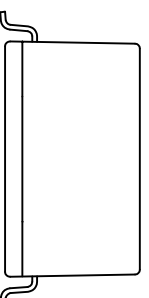
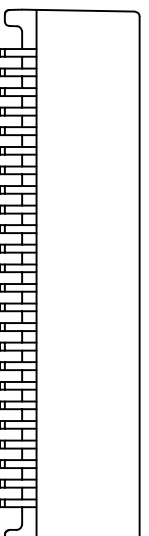
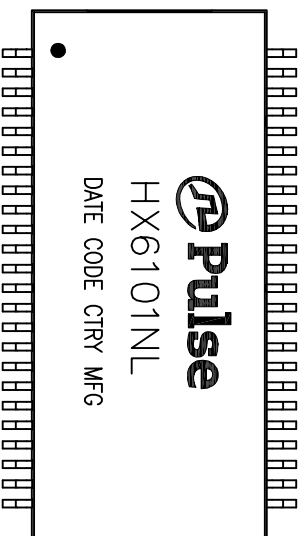
ILITY AT 245°C REFLOW PROFILE

O MOISTURE SENSITIVE

MAXIMUM THROUGH REFLOW SOLDER

NG ADD A "T" SUFFIX

NL BECOMES HX6101NLT).



FINAL OUTLINE

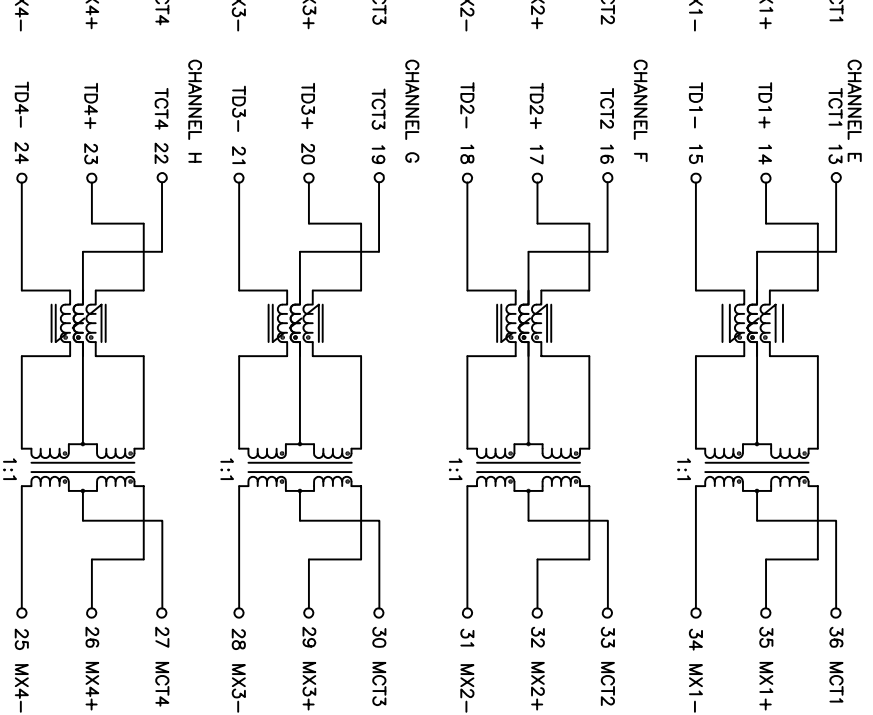
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TLA DRAWING HX6101NL-11	PS DRAWING PS-2007.001-C	SHEET 1 OF 3	PART NO. HX6101NL	DATASHEET REV. B
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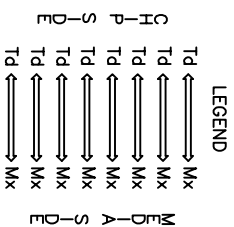
ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED  
MEETS IEEE 802.3 SPECIFICATION

PARAMETER	SPECIFICATIONS	
OPERATING TEMPERATURE	-40°C TO +85°C	
TURN RATIO	100 KHz	1.00 ± 2%
INSERTION LOSS	-1.2 DB MAX	-0.2-0.002*f <sup>1.4</sup> DB MAX
	1-40 MHz	40-100 MHz
RETURN LOSS (Z OUT = 100 OHM ±15%)	-16 DB MIN	-10+20*LOG <sub>10</sub> (f/80 MHz) DB MIN
	350 uH MIN (MEASURED AT 100 KHz, 100 mVRMS) (WITH 8 mA DC BIAS)	
INDUCTANCE (OCL) (MEDIA SIDE, -40 TO +85°C)	120 uH MIN (MEASURED AT 100 KHz, 100 mVRMS) (WITH 19 mA DC BIAS)	
	1 MHz	10-100 MHz
CROSSTALK, ADJACENT CHANNELS	-50 DB MIN	-55+22*LOG <sub>10</sub> (f/10) DB MIN
	2 MHz	30-200 MHz
COMMON MODE REJECTION RATIO	-50 DB MIN	-15+20*LOG <sub>10</sub> (f/200) DB MIN
DC RESISTANCE, 1/2 WINDING	.30 OHMS TYP.	
DC RESISTANCE BALANCE	±.05 OHMS MAX (CENTER TAP SYMMETRY)	
DC CURRENT/VOLTAGE RATING	600 mA @ 57 V (CONTINUOUS)	
INPUT - OUTPUT ISOLATION	1500 VRMS MIN @ 60 SECONDS	

NOTE: f IS FREQUENCY IN MHZ.



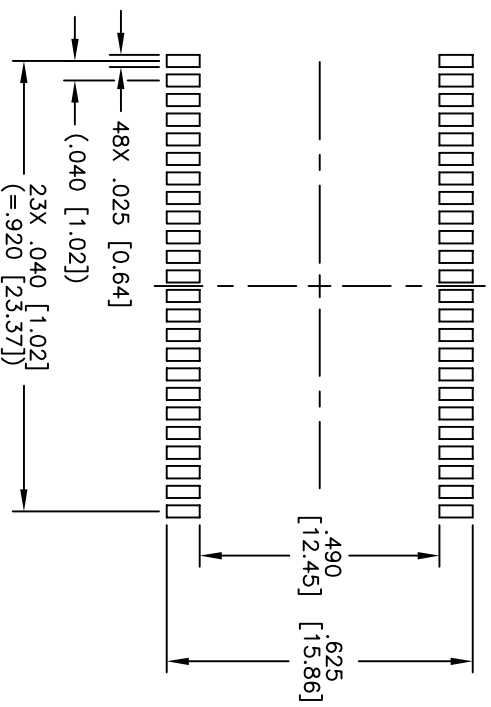
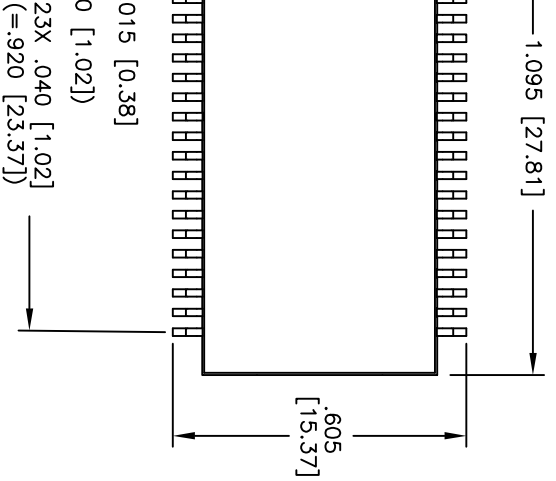
SCHEMATIC



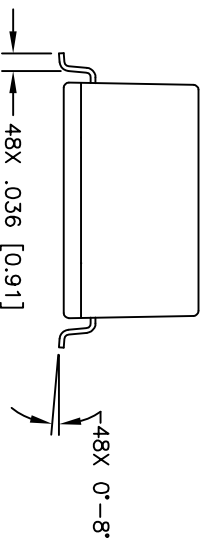
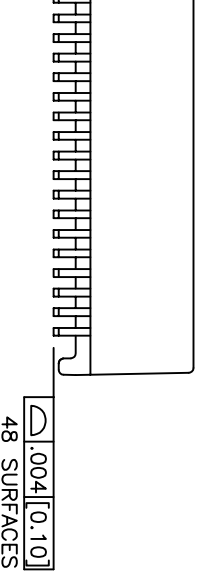
ALL CHANNELS ARE IN PHASE BETWEEN INPUT AND OUTPUT

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TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
HX6101NL-11	PS-2007.001-C	2 OF 3	HX6101NL	B



SUGGESTED LAND PATTERN





WITH THE FOLLOWING  
 REFERENCE ONLY.

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TLA DRAWING HX6101NL-11	PS DRAWING PS-2007.001-C	SHEET 3 OF 3	PART NO. HX6101NL	DATASHEET REV. B
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