



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

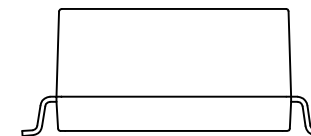
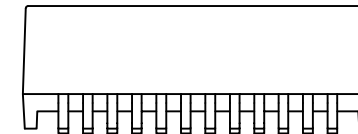
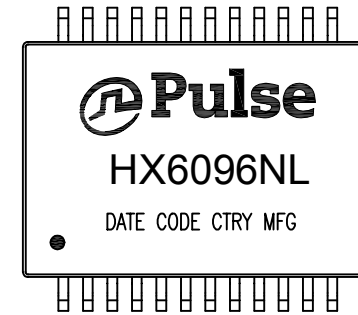
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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).

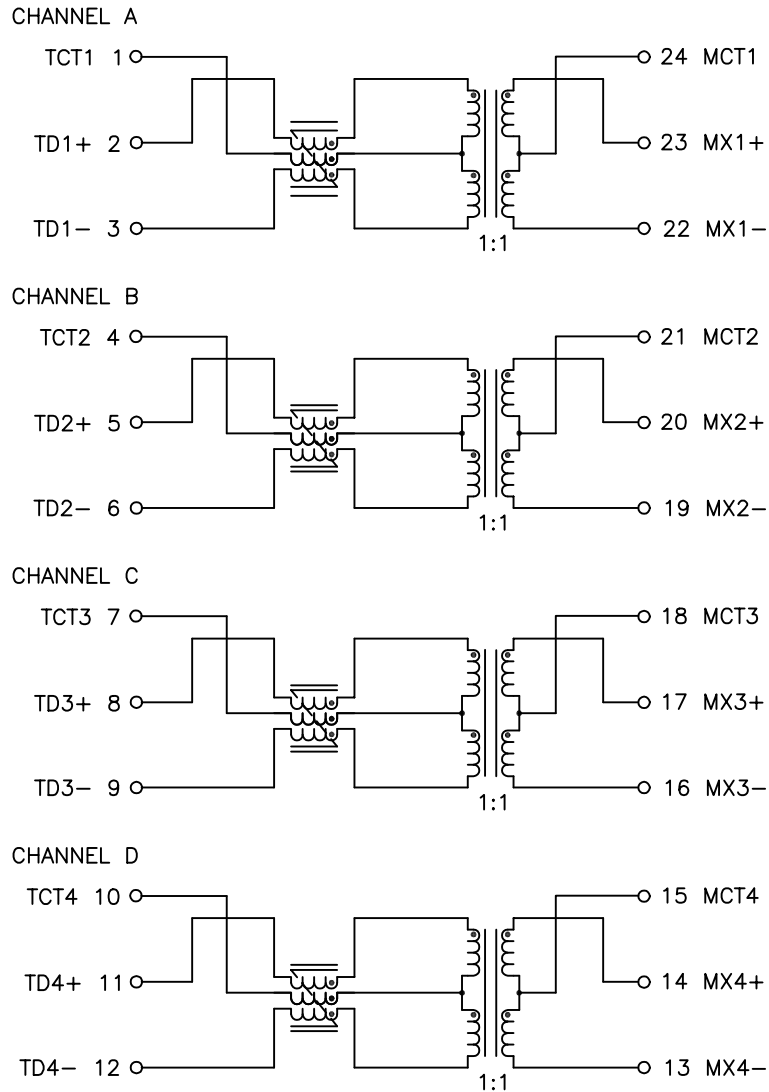


FINAL OUTLINE

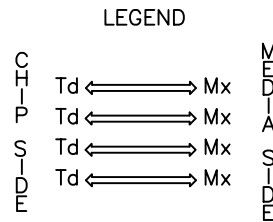
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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,1GP,1:1,SM,TU	HX6096NL-13	PS-2473.001-A	1 OF 3	HX6096NL	A

ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED  
MEETS IEEE 802.3 SPECIFICATION



SCHMATIC



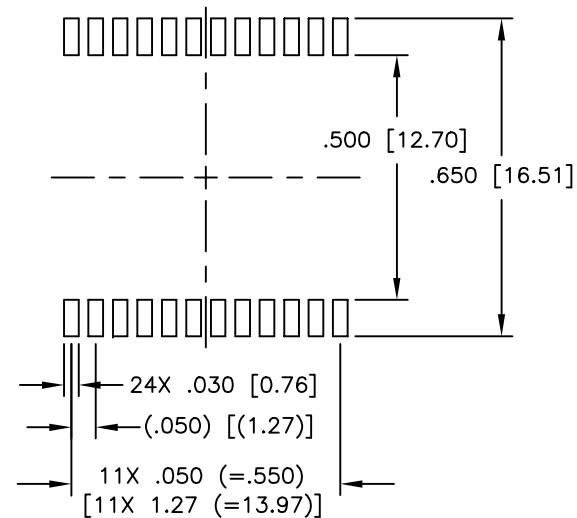
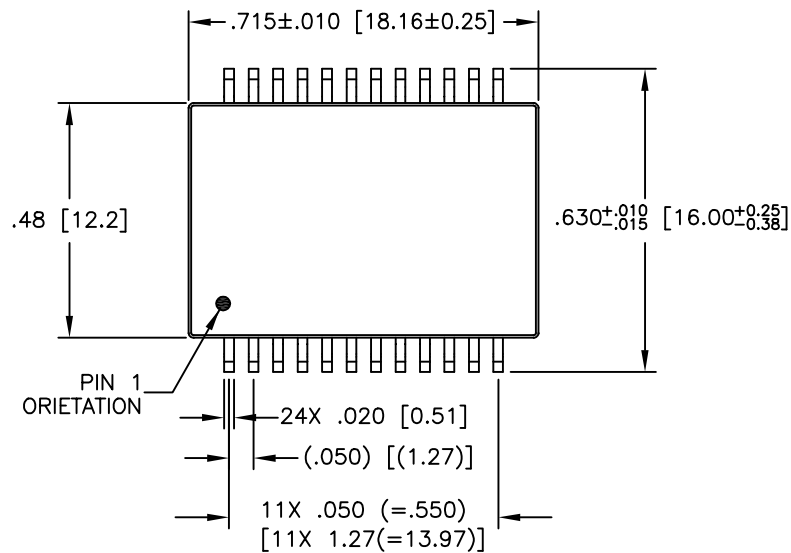
ALL CHANNELS ARE IN PHASE BETWEEN INPUT AND OUTPUT

PARAMETER	SPECIFICATIONS	
OPERATING TEMPERATURE	-40°C - +85°C	
TURNS RATIO	1.00 ± 2%	
INTERWINDING CAPACITANCE (C <sub>ww</sub> )	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*f <sup>1.4</sup> dB MAX
RETURN LOSS (Z OUT = 100 OHM ±15%)	1-40 MHz	40-100 MHz
	-16 dB MIN	-10+20*LOG <sub>10</sub> (f/80 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 <sub>10</sub> (f/10) dB MIN
COMMON MODE REJECTION RATIO	2 MHz	30-200 MHz
	-50 dB MIN	-15+20*LOG <sub>10</sub> (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	

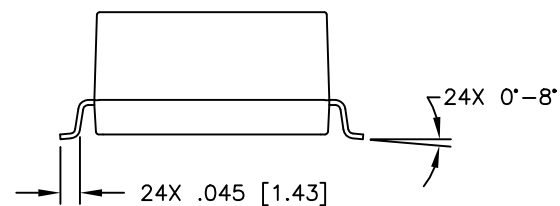
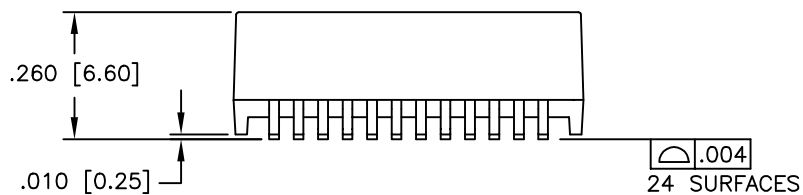
NOTE: f IS FREQUENCY IN MHZ.

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MDL,SIN,1GP,1:1,SM,TU	HX6096NL-13	PS-2473.001-A	2 OF 3	HX6096NL	A



SUGGESTED LAND PATTERN



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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