



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

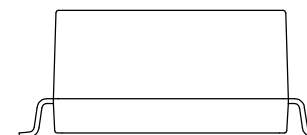
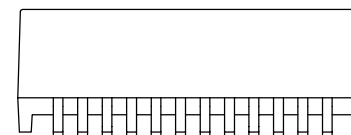
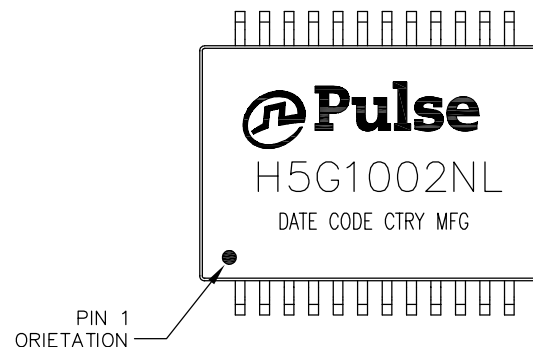
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

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



NOTES:

1. ROHS COMPLIANT
2. HEADER: DAP (DIALLYL PHTHALATE) WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. STORAGE TEMPERATURE: -20°C TO +125°C
4. COMPLIANCE TO J-STD:
  - A. J-STD-002: SOLDERABILITY AT 250°C REFLOW PROFILE
  - B. J-STD-020: LEVEL 1, NO MOISTURE SENSITIVE
  - C. J-STD-075: R7, 250°C MAXIMUM THROUGH REFLOW SOLDER
5. TO ORDER TAPE & REEL PACKAGING ADD A "T" SUFFIX TO THE PART NUMBER(i.e H5G1002NL BECOMES H5G1002NLT).

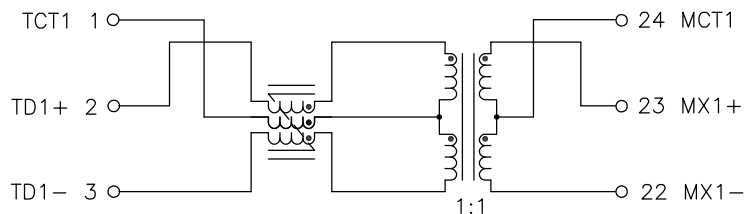


FINAL OUTLINE

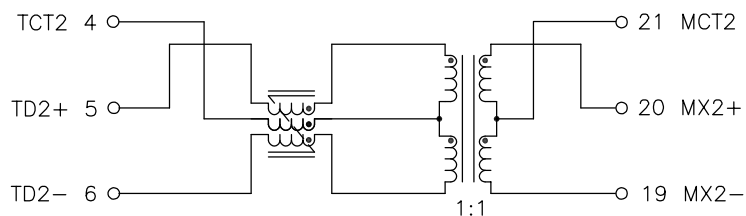
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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,5GPP,1:1,SM,TU	H5G1002NL-X1	PS-2473.001-A	1 OF 3	H5G1002NL	A

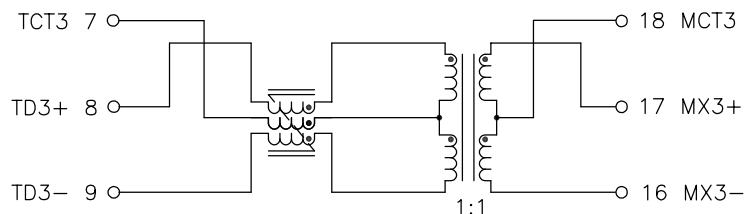
CHANNEL A



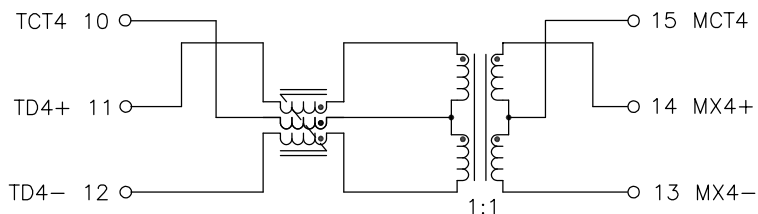
CHANNEL B



CHANNEL C



CHANNEL D



SCHEMATIC

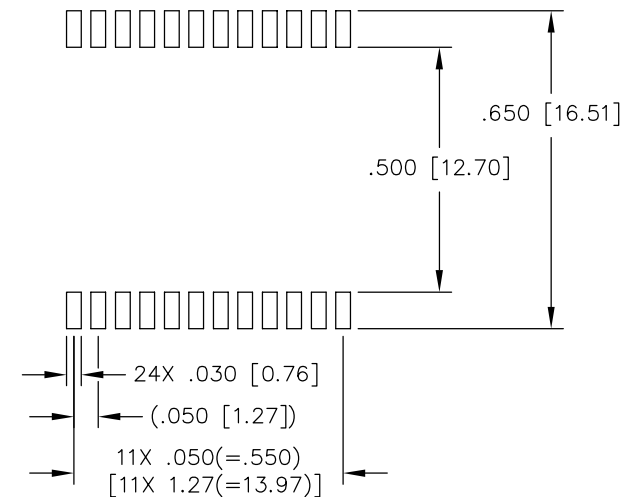
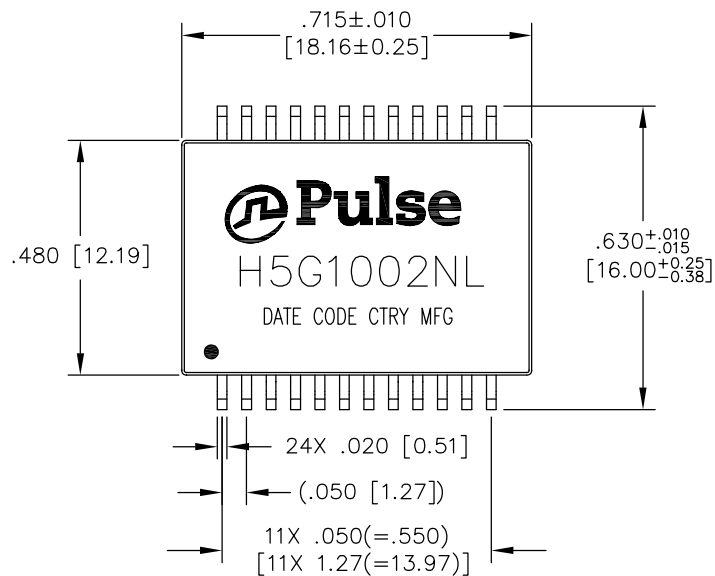
ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED  
MEETS IEEE 802.3 SPECIFICATION

PARAMETER	SPECIFICATIONS		
OPERATING TEMPERATURE	0°C TO +70°C		
TURNS RATIO	1.00 ± 2%		
POLARITY	PER SCHEMATIC		
INSERTION LOSS (SDD21&SDD12)	1-50 MHz	50-125 MHz	125-250 MHz
	-0.5 dB MAX	-1.0 dB MAX	-1.5 dB MAX
PHY-SIDE RETURN LOSS (SDD11 - Zref = 100 OHMS ± 1%)	1 MHz-40 MHz	40 MHz-250 MHz	
	-20 dB MIN	-20+15*LOG <sub>10</sub> (f/40) dB MIN	
LINE-SIDE RETURN LOSS (SDD22 - Zref = 100 OHMS ± 1%)	1 MHz-40 MHz	40 MHz-250 MHz	
	-20 dB MIN	-20+15*LOG <sub>10</sub> (f/40) dB MIN	
INDUCTANCE (OCL)	180 uH MIN WITH 0 mA DC BIAS		
	150 uH MIN WITH 10.8 mA DC BIAS		
CROSSTALK, ADJACENT CHANNELS (SDD21 - ADJ.)	1-125 MHz	125-250 MHz	
	-30 dB MIN	-20 dB MIN	
COMMON MODE REJECTION RATIO (SCC21)	30 MHz-250 MHz		
	-30 dB MIN		
COMM. TO DIFF. REJECTION RATIO (SDC12)	10 MHz-250 MHz		
	-45+f/35 dB MIN		
DC CURRENT CARRYING CAPABILITY	720 mA MAX AT 70°C		
INPUT - OUTPUT ISOLATION	1500 VRMS MIN @ 60 SECONDS		

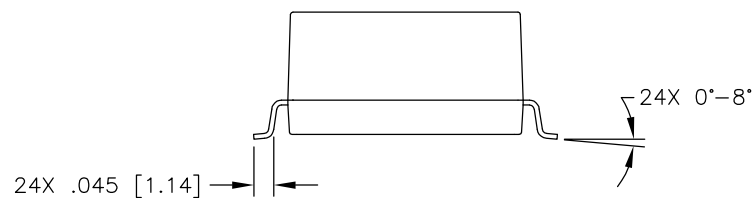
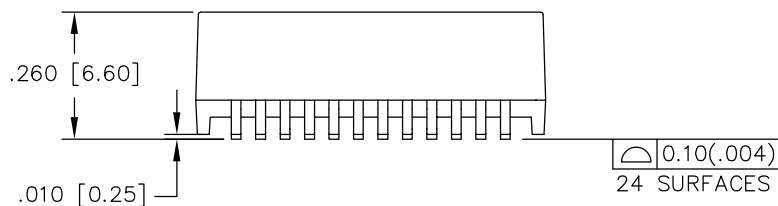
NOTE: f IS FREQUENCY IN MHZ.

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MDL,SIN,5GPP,1:1,SM,TU	H5G1002NL-X1	PS-2473.001-A	2 OF 3	H5G1002NL	A



SUGGESTED LAND PATTERN



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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MDL,SIN,5GPP,1:1,SM,TU	H5G1002NL-X1	PS-2473.001-A	3 OF 3	H5G1002NL	A