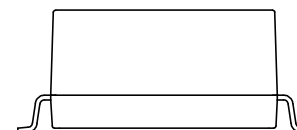
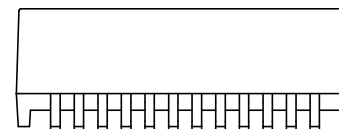
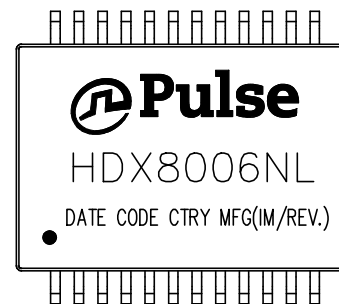




NOTES:

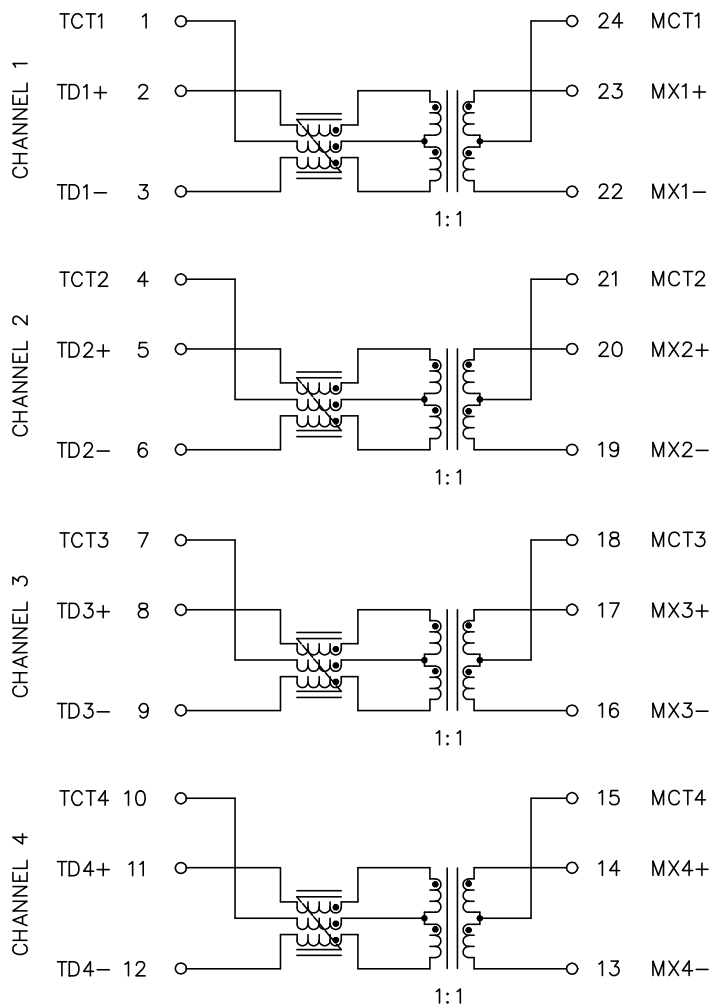
1. ROHS COMPLIANT
2. HEADER: DAP (DIALLYL PHTHALATE) WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. STORAGE TEMPERATURE: -50°C TO +125°C
4. COMPLIANCE TO J-STD:
  - A. J-STD-002: SOLDERABILITY AT 245°C REFLOW PROFILE
  - B. J-STD-020: LEVEL 1, NO MOISTURE SENSITIVE
  - C. J-STD-075: R7, 245°C MAXIMUM THROUGH REFLOW SOLDER
5. TO ORDER TAPE & REEL PACKAGING ADD A "T" SUFFIX TO THE PART NUMBER(i.e HDX8006NL BECOMES HDX8006NLT).



FINAL OUTLINE

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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,HDBT,1:1,POEPP,SM,TU	HDX8006NL-P4	PS-2473.001-C	1 OF 3	HDX8006NL	C



SCHEMATIC

ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED

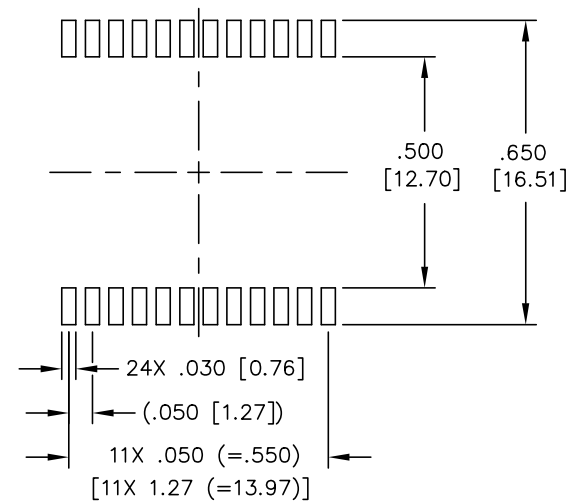
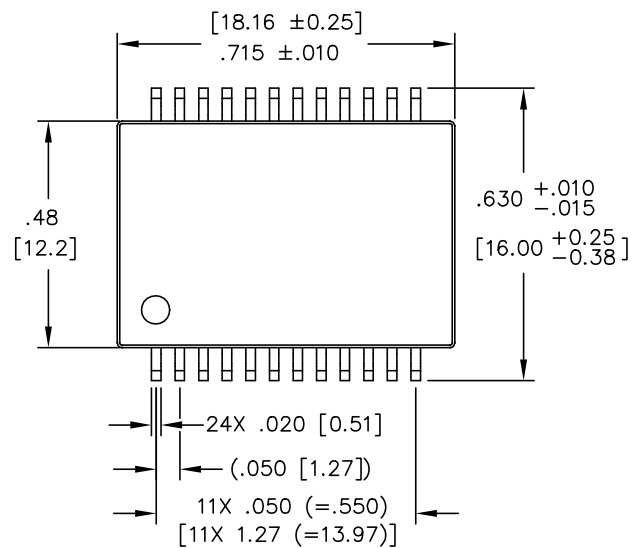
MEETS IEEE 802.3 SPECIFICATION

PARAMETER	SPECIFICATIONS				
OPERATING TEMPERATURE	−40°C TO +85°C				
TURNS RATIO	1.00 ± 2%				
POLARITY	PER SCHEMATIC				
INSERTION LOSS (SDD21)	100 KHz	1–200 MHz	300 MHz	400 MHz	500 MHz
	−3.0 dB MAX	−1.0 dB MAX	−1.8 dB MAX	−2.0 dB MAX	−3.0 dB MAX
PHY−SIDE RETURN LOSS (SDD11 − Zref = 100 OHMS ± 1%)	1–100 MHz		100–500 MHz		
	−20 dB MIN		−20+18.3*LOG <sub>10</sub> (f/100 MHz) dB MIN		
INDUCTANCE (OCL) (MEDIA SIDE, −40°C TO +85°C)	120 uH MIN ( MEASURED AT 100 KHz, 100 mVRMS AND WITH 25 mA DC BIAS )				
CROSSTALK, ADJACENT CHANNELS (SDD21 − ADJ.)	1–100 MHz		100–500 MHz		
	−33 dB MIN		−22 dB MIN		
COMMON MODE REJECTION RATIO (SCC21)	1 MHz–100 MHz		100–300 MHz		300–500 MHz
	−37 dB MIN		−30 dB MIN		−25 dB MIN
COMM. TO DIFF. REJECTION RATIO (SDC12)	1 MHz–100 MHz		100–300 MHz		300–500 MHz
	−40 dB MIN		−30 dB MIN		−25 dB MIN
DC RESISTANCE, 1/2 WINDING	.65 OHMS MAX				
DC CURRENT/ VOLTAGE RATING	1500 mA MAX @ 57 V (CONTINUOUS)				
INPUT − OUTPUT ISOLATION	1500 VRMS MIN @ 60 SECONDS				

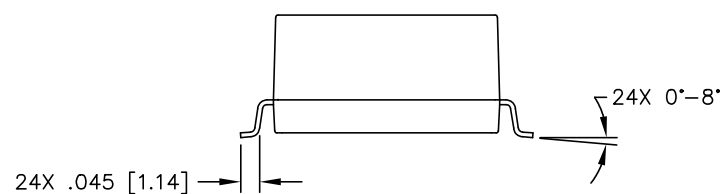
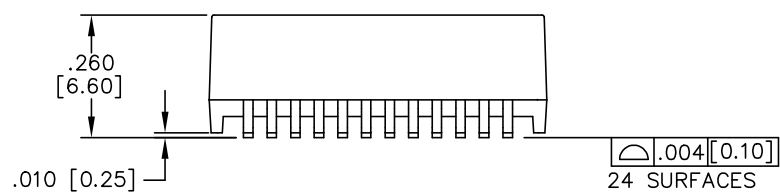
NOTE: f IS FREQUENCY IN MHZ.

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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,HDBT,1:1,POEPP,SM,TU	HDX8006NL-P4	PS-2473.001-C	2 OF 3	HDX8006NL	C



SUGGESTED LAND PATTERN



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

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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,HDBT,1:1,POEPP,SM,TU	HDX8006NL-P4	PS-2473.001-C	3 OF 3	HDX8006NL	C

# Mouser Electronics

Authorized Distributor

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[HDX8006NLT](#)