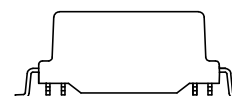
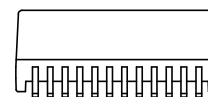
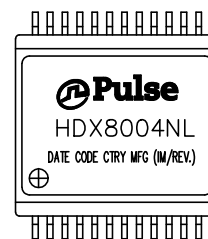




NOTES:

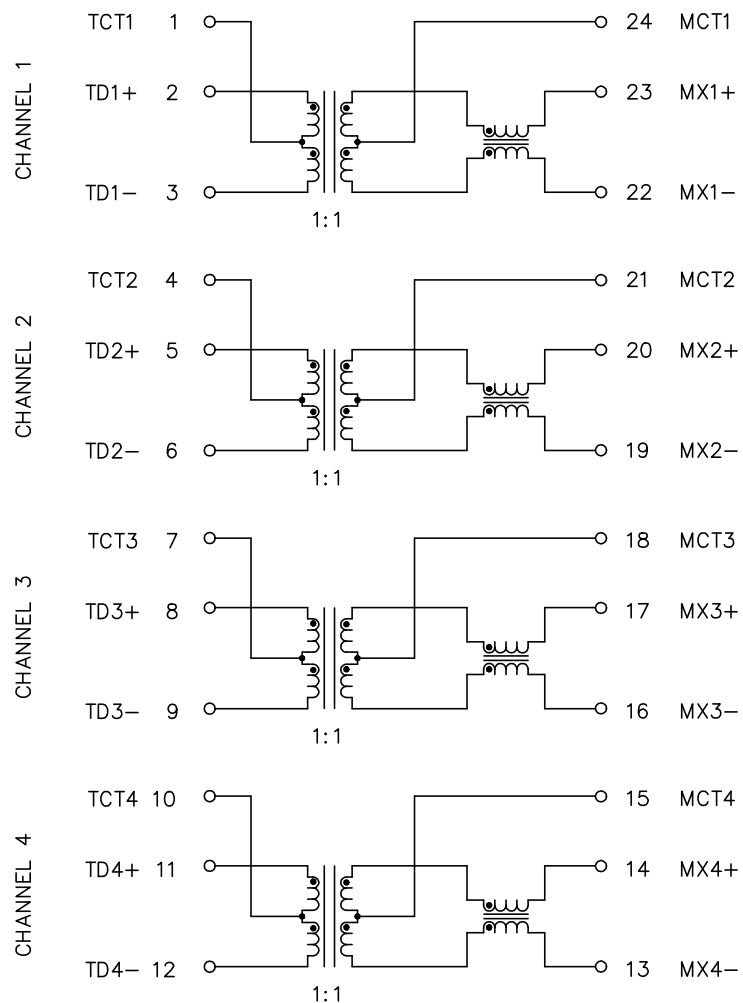
1. ROHS COMPLIANT
2. HEADER: DAP (DIALLYL PHTHALATE) WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. DESIGNED TO SUPPORT HD-BASET AND TESTED WITH VALENS CHIPSET
4. STORAGE TEMPERATURE: -50°C TO +125°C
5. COMPLIANCE TO J-STD:
 - A. J-STD-002: SOLDERABILITY AT 245°C REFLOW PROFILE
 - B. J-STD-020: LEVEL 1, NO MOISTURE SENSITIVE
 - C. J-STD-075: R7, 245°C MAXIMUM THROUGH REFLOW SOLDER
6. TO ORDER TAPE & REEL PACKAGING ADD A "T" SUFFIX TO THE PART NUMBER(i.e HDX8004NL BECOMES HDX8004NLT).



FINAL OUTLINE

© Copyright, 2018. Pulse Electronics Corp. All rights reserved. Pulse confidential & proprietary. (06/29/18)

PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,HDBT,1:1,POEPP,SM,TU	HDX8004NL-P1	PS-2517.001-B	1 OF 3	HDX8004NL	C



SCHEMATIC

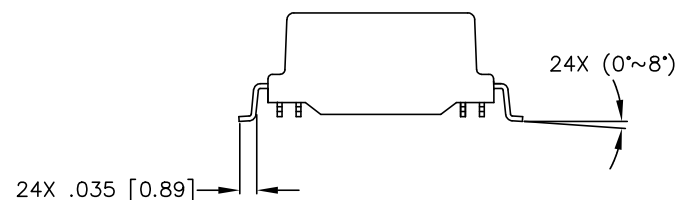
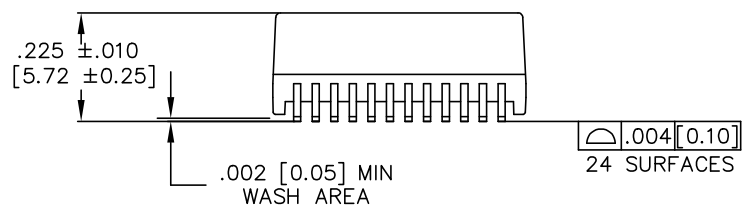
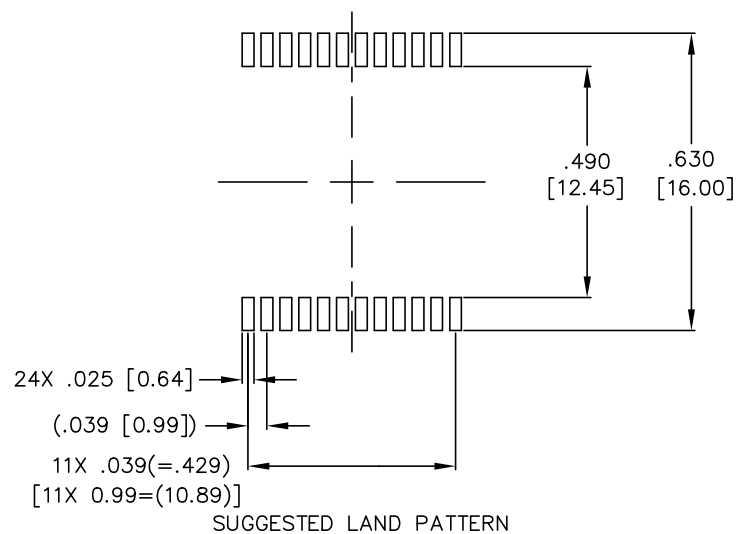
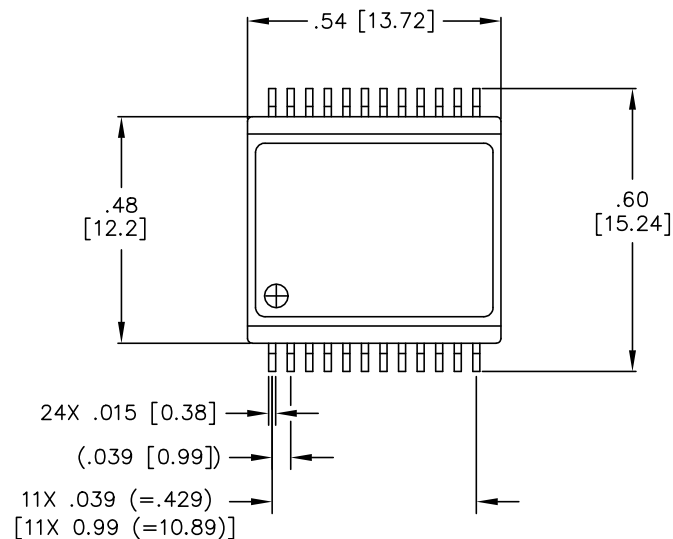
ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED
MEETS IEEE 802.3 SPECIFICATION

PARAMETER	SPECIFICATIONS		
OPERATING TEMPERATURE	−40°C TO +85°C		
URNS RATIO	1.00 ± 2%		
POLARITY	PER SCHEMATIC		
INSERTION LOSS (SDD21)	100 KHz	1–400 MHz	
	−3.0 dB MAX	−2.0 dB MAX (−1.0 dB TYP)	
PHY−SIDE RETURN LOSS (SDD11 − Zref = 100 OHMS ± 1%)	1 MHz–40 MHz	100 MHz–400 MHz	
	−20 dB MIN	−20+10*LOG ₁₀ (f/40) dB MIN	
LINE−SIDE RETURN LOSS (SDD22 − Zref = 100 OHMS ± 1%)	1 MHz − 40 MHz	40 MHz − 400 MHz	
	−20 dB MIN	−20+10*LOG ₁₀ (f/40) dB MIN	
INDUCTANCE (OCL)	120 uH MIN (MEASURED AT 100 KHz, 100 mVRMS) AND WITH 10.3 mA DC BIAS		
CROSSTALK, ADJACENT CHANNELS (SDD21 − ADJ.)	1–100 MHz	100–400 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 CURRENT CARRING CAPABILITY	600 mA MAX AT 57 VDC		
INPUT − OUTPUT ISOLATION	1500 VRMS MIN @ 60 SECONDS		

NOTE: f IS FREQUENCY IN MHZ.

© Copyright, 2018. Pulse Electronics Corp. All rights reserved. Pulse confidential & proprietary. (06/29/18)

PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,HDBT,1:1,POEPP,SM,TU	HDX8004NL-P1	PS-2517.001-B	2 OF 3	HDX8004NL	C



DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING
TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.
.XX= ± 0.01 [± 0.25]
.XXX= ± 0.005 [± 0.13]

© Copyright, 2018. Pulse Electronics Corp. All rights reserved. Pulse confidential & proprietary. (06/29/18)

PRODUCT DESCRIPTION

MDL,SIN,HDBT,1:1,POEPP,SM,TU

TLA DRAWING

HDX8004NL-P1

PS DRAWING

PS-2517.001-B

SHEET

3 OF 3

PART NO.

HDX8004NL

DATASHEET REV.

C