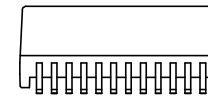
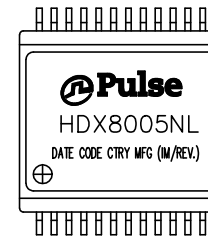




NOTES:

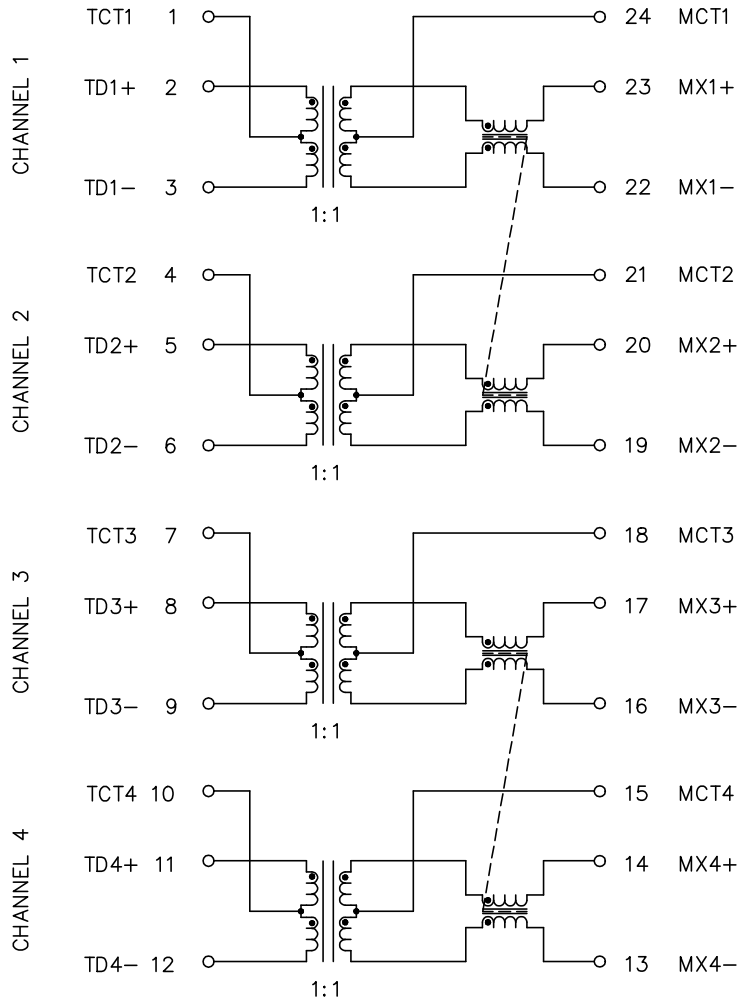
1. ROHS COMPLIANT
2. HEADER: DAP (DIALLYL PHTHALATE) WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. DESIGNED TO SUPPORT HD-BASET AND TESTED WITH VALENS CHIPSET
4. STORAGE TEMPERATURE: -50°C TO +125°C
5. COMPLIANCE TO J-STD:
 - A. J-STD-002: SOLDERABILITY AT 245°C REFLOW PROFILE
 - B. J-STD-020: LEVEL 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 HDX8005NL BECOMES HDX8005NLT).



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 | HDX8005NL-P1 | PS-2517.001-B | 1 OF 3 | HDX8005NL | C |



SCHEMATIC

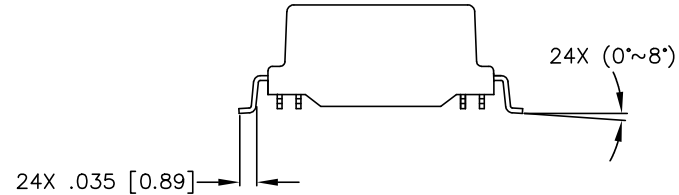
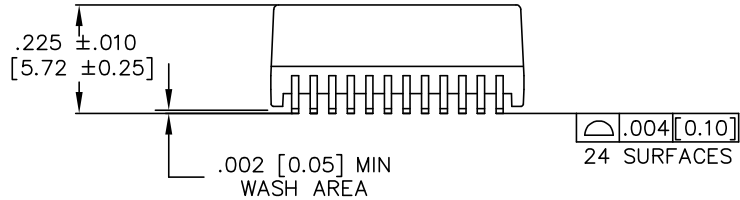
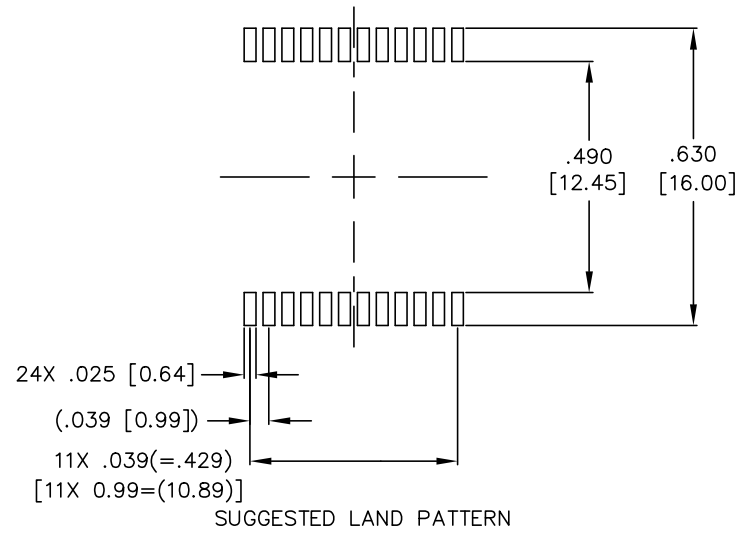
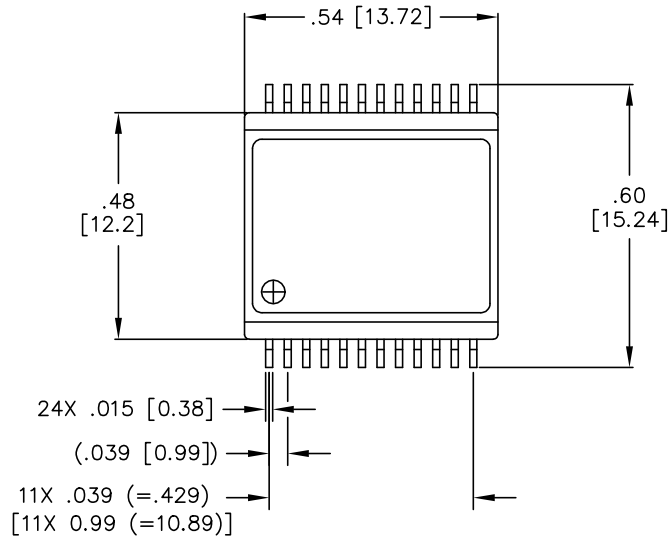
ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED
MEETS IEEE 802.3 SPECIFICATION

| PARAMETER | SPECIFICATIONS | | |
|--|---|--|-------------|
| OPERATING TEMPERATURE | -40°C TO +85°C | | |
| TURNS RATIO | 1.00 ± 2% | | |
| POLARITY | PER SCHEMATIC | | |
| INSERTION LOSS (SDD21) | 100 KHz | 1-400 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+12*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+12*LOG ₁₀ (f/40) dB MIN | |
| INDUCTANCE (OCL) | 120 uH MIN @ 100 kHz, 100 mV WITH 15 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 | 900 mA MAX AT 57 VDC | | |
| INPUT - OUTPUT ISOLATION | 1500 VRMS MIN @ 60 SECONDS | | |

NOTE: f IS FREQUENCY IN MHZ.

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| MDL,SIN,HDBT,1:1,POEPP,SM,TU | HDX8005NL-P1 | PS-2517.001-B | 2 OF 3 | HDX8005NL | C |



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

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| MDL,SIN,HDBT,1:1,POEPP,SM,TU | HDX8005NL-P1 | PS-2517.001-B | 3 OF 3 | HDX8005NL | C |

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[B78476A9558A003](#) [1812WBT2-4](#) [1879479-1](#) [HX2260FNL](#) [HX5014FNL](#) [EX2024FNL](#) [FL1066](#) [T1137NLT](#) [T3012NL](#) [PE-65812FNL](#) [PE-65848FNLT](#) [H1174FNL](#) [H1302FNL](#) [H5015FNL](#) [H5019EFNL](#) [H5062FNLT](#) [CX2047LNL](#) [MGPWT-00059-P](#) [MGPWT-00266-P](#) [MGPWT-00278-P](#) [MGPWT-00431-P](#) [TTC-100](#) [TTC-143-H](#) [TTC-5032-1](#) [BX1194WNLT](#) [HX1234NLT](#) [HX5008FNLT](#) [HX5019FNL](#) [HX5084NL](#) [3-1879385-5](#) [TX1263NLT](#) [4-1879391-0](#) [T1142NL](#) [HX6101FNL](#) [HX5084FNL](#) [HX1148NL](#) [HX5020FNLT](#) [HX5014FNLT](#) [T1124NL](#)
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