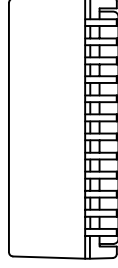
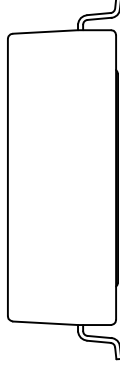


NOTES:

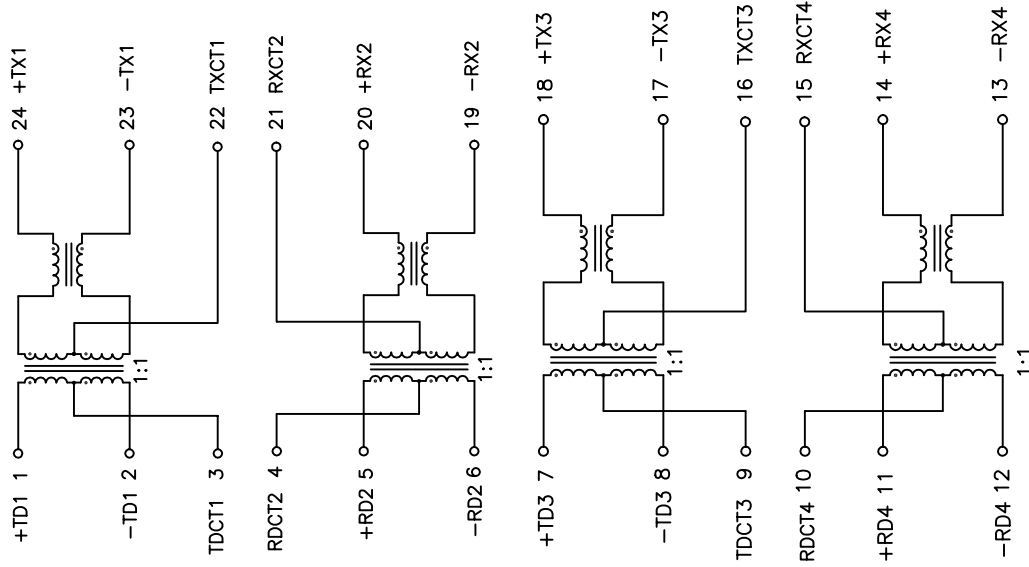
1. ROHS COMPLIANT
2. HEADER: THERMOSET PLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. STORAGE TEMPERATURE: -50°C TO +125°C
4. COMPLIANCE TO J-STD:
 - A. J-STD-002: SOLDERABILITY AT 245°C REFLOW PROFILE
 - B. J-STD-020: LEVEL 1, NO MOISTURE SENSITIVE
 - C. J-STD-075: R7, 245°C MAXIMUM THROUGH REFLOW SOLDER
5. TO ORDER TAPE & REEL PACKAGING ADD A "T" SUFFIX TO THE PART NUMBER(i.e HX1294NL BECOMES HX1294NLT).



FINAL OUTLINE

© Copyright, 2015. Pulse Electronics Corp. All rights reserved. Pulse confidential & proprietary. (07/30/15)

PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,DUAL,100D,1:1,SM,TU	HX1294NL-12	PS-2268.001-C	1 OF 3	HX1294NL	A



SCHEMATIC

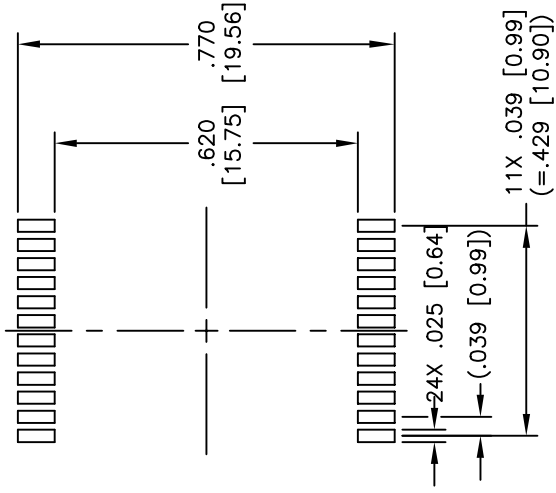
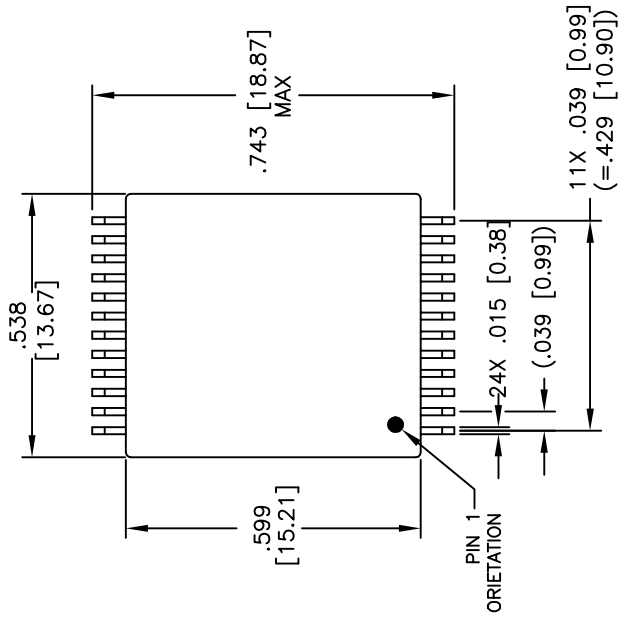
ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED
MEETS IEEE 802.3 SPECIFICATION

PARAMETER	SPECIFICATIONS
OPERATING TEMP	-40°C ~ +85°C
TURNS RATIO	1.00 ± 2%
POLARITY	PER SCHEMATIC
OCL, TRANSMIT CHANNEL	325 uH MIN. WITH 8mA DC BIAS, -40 TO 85 °C
INSERTION LOSS	100 KHz 1-100 MHz -1.2 dB MAX -1.0 dB MAX -3.0 dB MAX
RETURN LOSS (Z OUT = 100 OHM ±15%)	1-40 MHz 40-100 MHz -16 dB MIN -10+20*LOG ₁₀ (f/80) dB MIN
CROSSTALK (TX-RX)	1 MHz 30-100 MHz -50 dB MIN -55+24*LOG ₁₀ (f/10) dB MIN
DIFFERENTIAL TO COMMON MODE REJECTION	2 MHz 30-100 MHz -50 dB MIN -43+22*LOG ₁₀ (f/30) dB MIN
INPUT - OUTPUT ISOLATION	1500 VRMS 60 SEC

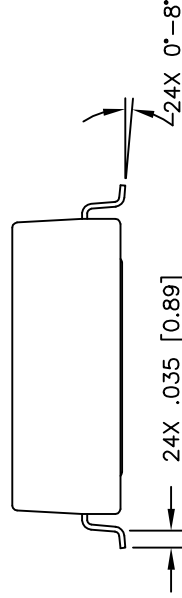
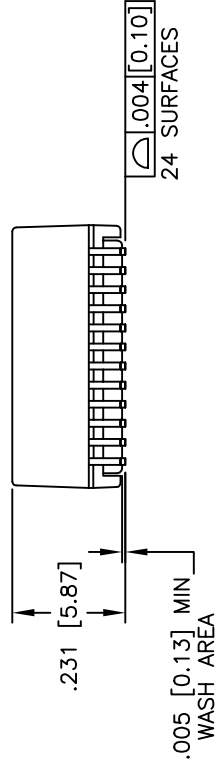
NOTE: f IS FREQUENCY IN MHZ.

© Copyright, 2015, Pulse Electronics Corp. All rights reserved. Pulse confidential & proprietary. (07/30/15)

PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,DUAL,100D,1:1,SM,TU	HX1294NL-12	PS-2268.001-C	2 OF 3	HX1294NL	A



SUGGESTED LAND PATTERN



DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.
 .XX = ±.02 [±0.50]
 .XXX = ±.010 [±0.25]

© Copyright, 2015, Pulse Electronics Corp. All rights reserved. Pulse confidential & proprietary. (07/30/15)

PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,DUAL,100D,1:1,SM,TU	HX1294NL-12	PS-2268.001-C	3 OF 3	HX1294NL	A