





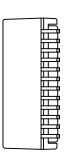
NOTES:

- ROHS COMPLIANT
- HEADER: THERMOSET PLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V-0 OR BETTER. ď
- STORAGE TEMPERATURE: -50°C TO +125°C ь;
- COMPLIANCE TO J-STD: 4.
- J-STD-002: SOLDERABILITY AT 245°C REFLOW PROFILE ċ
- J-STD-020: LEVEL 1, NO MOISTURE SENSITIVE m
- J-STD-075: R7, 245'C MAXIMUM THROUGH REFLOW SOLDER ပ
- TO ORDER TAPE & REEL PACKAGING ADD A "T" SUFFIX 5

TO THE PART NUMBER(i.e HX1294NL BECOMES HX1294NLT).







FINAL OUTLINE

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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	٧
E-MAIL: PRODINFONETWORK@PULSEELECTRONICS.COM(US). ASIA@PUI SFFI FCTRONICS.COM(Asia)	IS). ASIA@PUI SFFI FCTRONICS.COM(Asia)	PHONE: USA:858 674 8100, GERMANY:49 7032 78060, SINGAPORE:65 6287 8998, SHANGHAI:86 21 62787060, TAIWAN:886 3 4356768	78060, SINGAPORE	:65 6287 8998, SHANGHAI:86 21 62787	060, TAIWAN:886 3 4356768





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

PARAMETER	IS .	SPECIFICATIONS
OPERATING TEMP	—	-40℃ ~ +85℃
TURNS RATIO	l	1.00 ± 2%
POLARITY	3d	PER SCHEMATIC
OCL, TRANSMIT CHANNEL	325 uh MIN. 1	325 uh MIN. WITH 8mA DC BIAS, -40 TO 85 °C
SSO I NOITEESINI	100 KHz	1-100 MHz 125 MHz
INSERTION LOSS	-1.2 dB MAX	-1.2 dB MAX -1.0 dB MAX -3.0 dB MAX
RETURN LOSS	1-40 MHz	40-100 MHz
$(Z OUT = 100 OHM \pm 15\%)$	NIM BD 91-	$-10+20*LOG_{10}$ (f/80) dB MIN
(AG AT) // INTSSOGO	1 MHz	30-100 MHz
CRUSSIALN (IA-RA)	-50 dB MIN	$-55+24*LOG_{10}(f/10)$ dB MIN
DIFFERENTIAL TO COMMON	Z MHz	30-100 MHz
MODE REJECTION	NIW 8P 05-	$-43+22*LOG_{10}(f/30)$ dB MIN
INPUT – OUTPUT ISOLATION		1500 VRMS 60 SEC

→ 21 RXCT2

RDCT2 4 0-

TDCT1 3 0-

~ 20 +RX2

+RD2 5 ⊶

 $\frac{3}{3}$

→ 22 TXCT1

~ 23 −TX1

-TD1 2 ⊶

→ 24 +TX1

+TD1 1 ↔

NOTE: f IS FREQUENCY IN MHz.

→ 18 +TX3

~ 19 -RX2

-RD2 6 ⊶

+TD3 7 ~

	0 16 TXCT3		14 +RX4	13 -RX4
₩ <u>+</u>	_			<u></u>
-TD3 8 o-	TDCT3 9 •	RDCT4 10	+RD4 11 o	-RD4 12 o

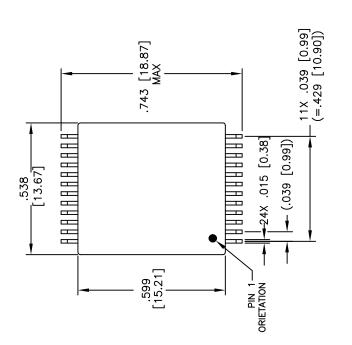
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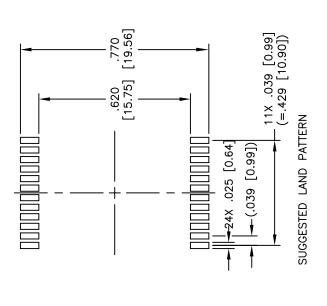
SCHEMATIC

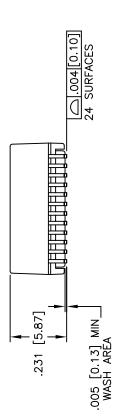
	DATASHEET REV.	A
	PART NO.	HX1294NL
	SHEET	2 OF 3
	PS DRAWING	PS-2268.001-C
	TLA DRAWING	HX1294NL-12
	PRODUCT DESCRIPTION	MDL,DUAL,100D,1:1,SM,TU

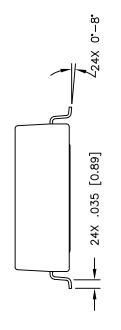












DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.

.XX= ±.02 [±0.50]

.XXX= ±.010 [±0.25]

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RIPTION TLA DRAWING PS DRAWIN:1.SM.TU HX1294NL-12 PS-2268 OC						
AL.100D.1:1.SM.TU HX1294NL-12 PS-2268 OC	PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHE
000000		HX1294NL-12	PS-2268.001-C	3 OF 3	HX1294NL	∀

HEET REV.