chanhvinh.com

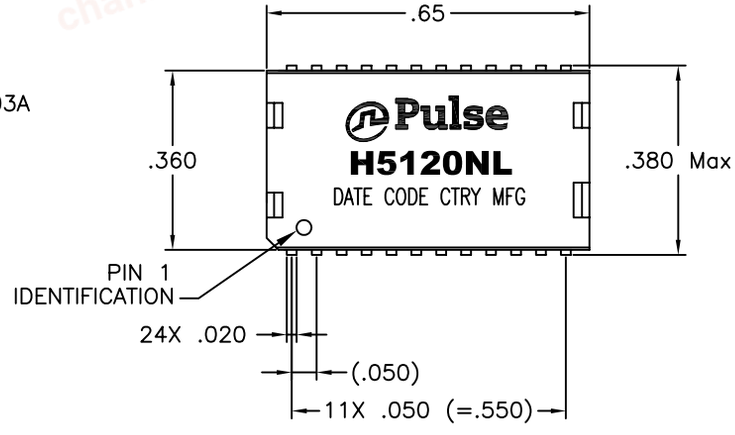
RoHS COMPLIANT

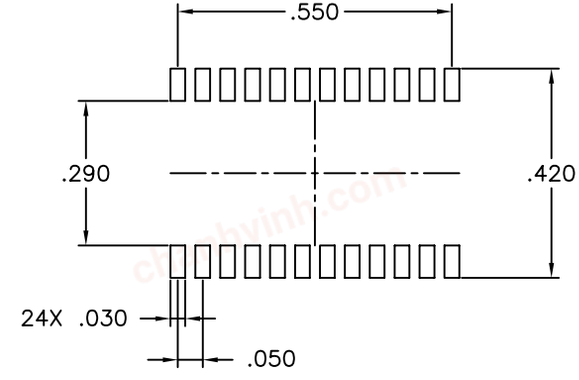
Pulse Electronics
www.pulseelectronics.com

IEEE802.3 COMPLIANT

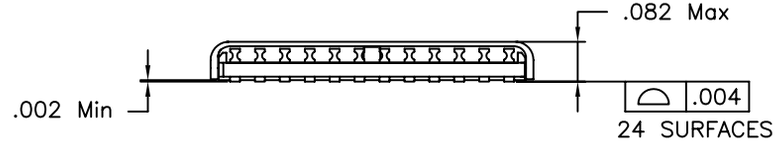
NOTES: UNLESS OTHERWISE SPECIFIED

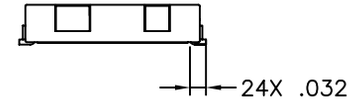
1. PLASTIC: THERMOSET PLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
2. SOLDERABILITY: CONFORMS TO ANSI/J-STD-002, 245°C REFLOW PEAK TEMPERATURE PER IPC/EIA J-STD-003A
3. OPERATING TEMPERATURE: 0°C TO +70°C
4. STORAGE TEMPERATURE: -20°C TO +125°C
5. JEDEC MOISTURE: LEVEL 1.
6. DIMENSIONS ARE IN INCHES, TOLERANCES:
   .XX = ±.01
   .XXX= ±.005





SUGGESTED LAND PATTERN





© Copyright, 2011. Pulse Electronics Corp. All rights reserved. Drawing specifications subject to change without notice. (04/12/11)

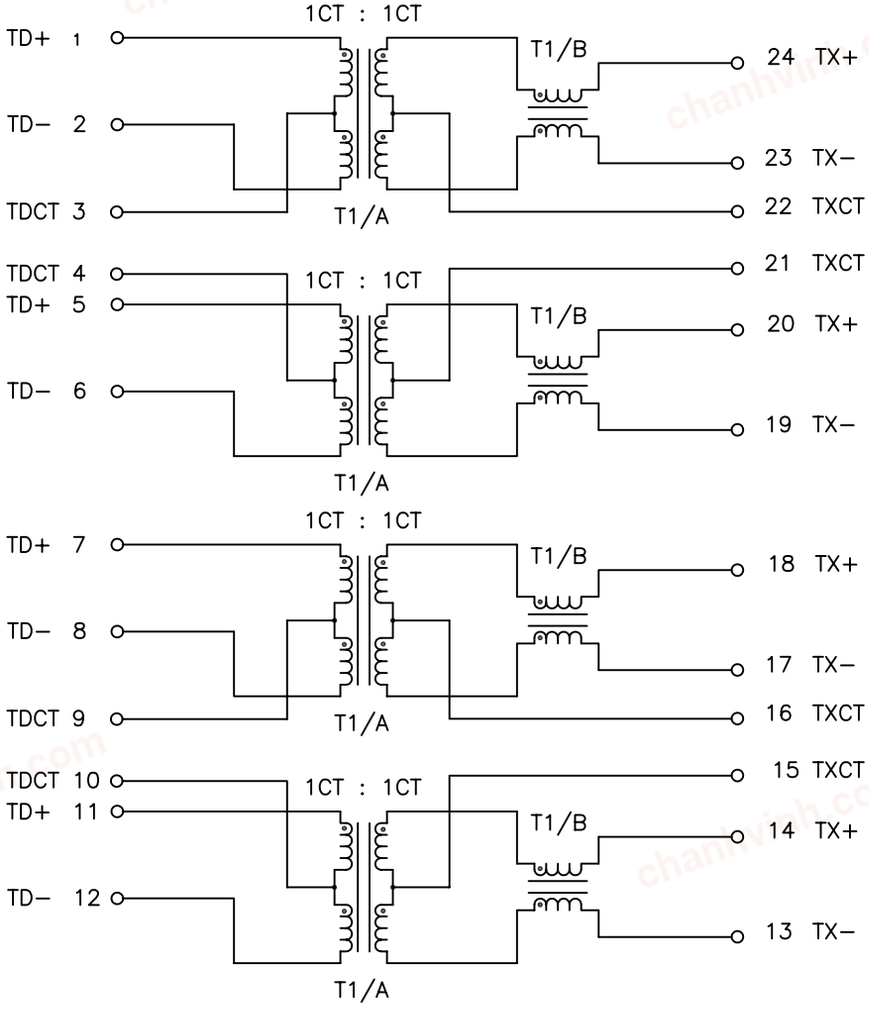
PULSE CONFIDENTIAL & PROPRIETARY	PRODUCT DESCRIPTION	PS DRAWING	SHEET:	DWG. NO./ PART NO.	REV.
	MDL,SIN,1GD,1:1,SM,TU	PS-2422.001-B	1	H5120NL	M13

chanhvinh.com

RoHS COMPLIANT

Pulse Electronics
www.pulseelectronics.com

IEEE802.3 COMPLIANT



SCHEMATIC

ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHERWISE SPECIFIED
(FOR REFERENCE ONLY. USED FOR CUSTOMER INFORMATION.)

PARAMETER	SPECIFICATIONS	
OPERATING TEMP	0°C – 70 °C	
TURNS RATIO	1 : 1 ±2%	
POLARITY	PER SCHEMATIC	
INSERTION LOSS	100 KHz	1–125 MHz
	−1.2 dB MAX	$-0.2-0.002*f^{1.4}$ dB MAX
RETURN LOSS (Z OUT = 100 OHM ±15%)	.1–40 MHz	40–100 MHz
	−16 dB MIN	$-10+20*\text{LOG}_{10}(f/80\ \text{MHz})$ dB MIN
INDUCTANCE (OCL) (MEDIA SIDE, 0°C–70°C)	350 uH MIN	(MEASURED AT 100 KHz, 100 mVRMS AND WITH 8 mA DC BIAS)
CROSSTALK, ADJACENT CHANNELS	1 MHz	10–100 MHz
	−50 dB MIN	$-55+22*\text{LOG}_{10}(f/10)$ dB MIN
COMMON MODE REJECTION RATIO	2 MHz	30–200 MHz
	−42 dB MIN	$-15+20*\text{LOG}_{10}(f/200)$ dB MIN
DC RESISTANCE, 1/2 WINDING	.65 OHMS MAX	
DC RESISTANCE IMBALANCE	±.065 OHMS MAX (CENTER TAP SYMMETRY)	
INPUT – OUTPUT ISOLATION	1500 VRMS MIN @ 60 SECONDS	

NOTE: f IS FREQUENCY IN MHz.

© Copyright, 2011. Pulse Electronics Corp. All rights reserved. Drawing specifications subject to change without notice. (04/12/11)