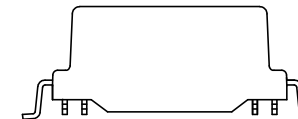
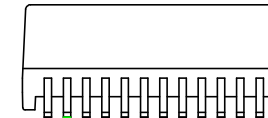
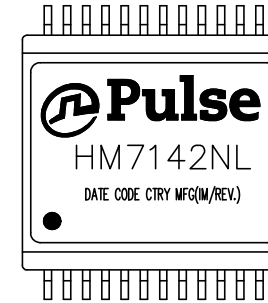




NOTES:

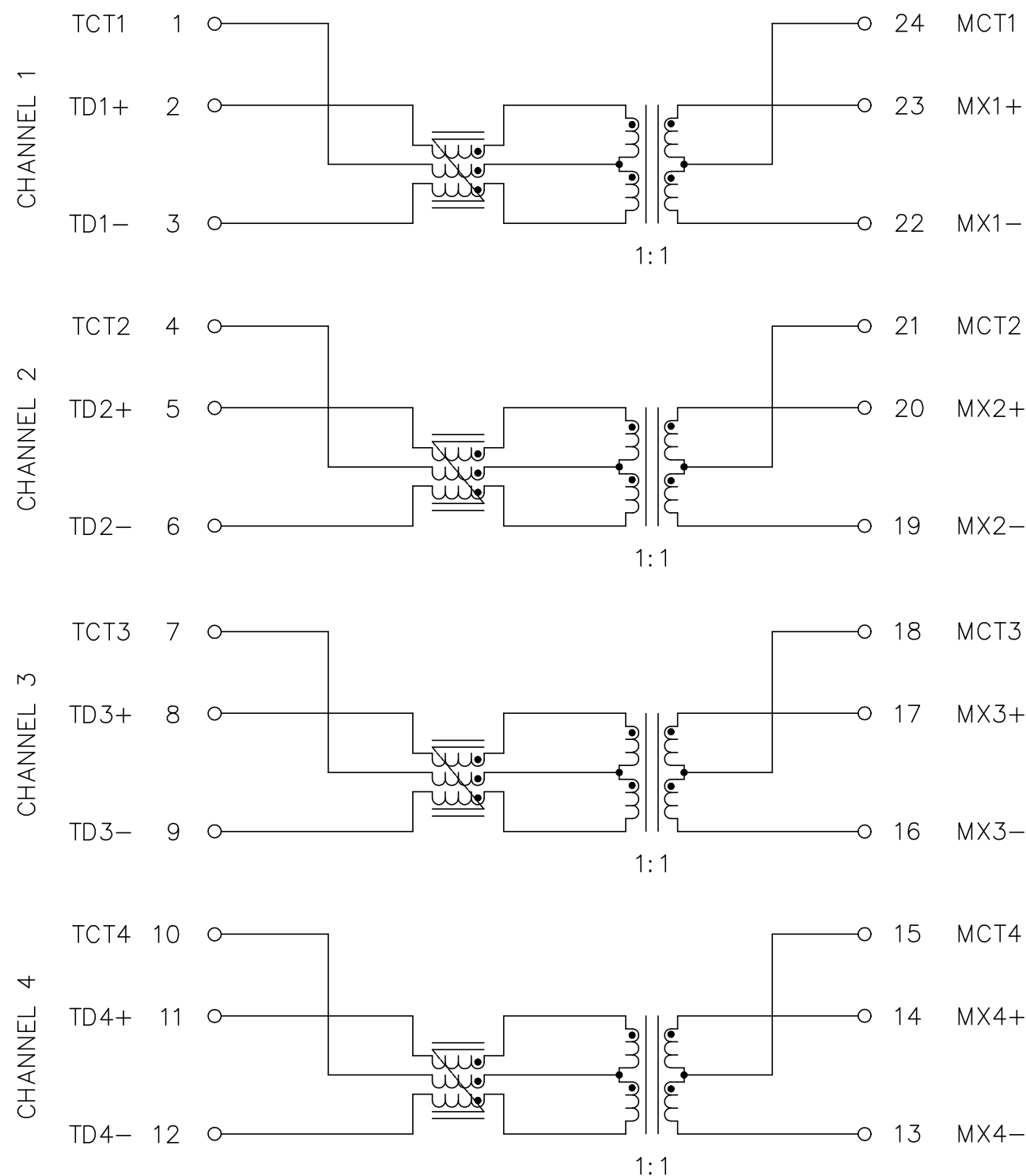
1. ROHS COMPLIANT
2. HEADER: DAP (DIALLYL PHTHALATE) WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. STORAGE TEMPERATURE: -50°C TO +125°C
4. COMPLIANCE TO J-STD:
 - A. J-STD-002: SOLDERABILITY AT 245°C REFLOW PROFILE
 - B. J-STD-020: LEVEL 1, NO MOISTURE SENSITIVE
 - C. J-STD-075: R7, 245°C MAXIMUM THROUGH REFLOW SOLDER
5. TO ORDER TAPE & REEL PACKAGING ADD A "T" SUFFIX TO THE PART NUMBER(i.e HM7142NL BECOMES HM7142NLT).



FINAL OUTLINE

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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,10G,1: 1,GEN2,SM,TU	HM7142NL-P4	PS-2517.001-B	1 OF 3	HM7142NL	C



SCHEMATIC

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

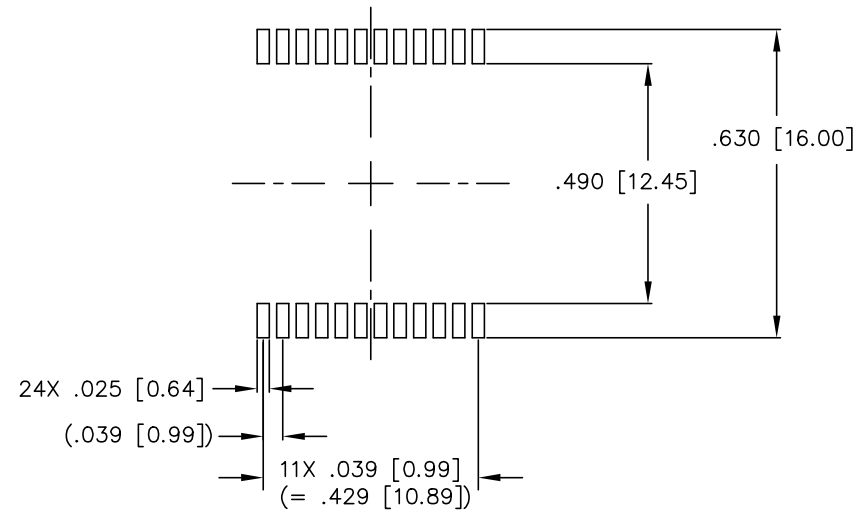
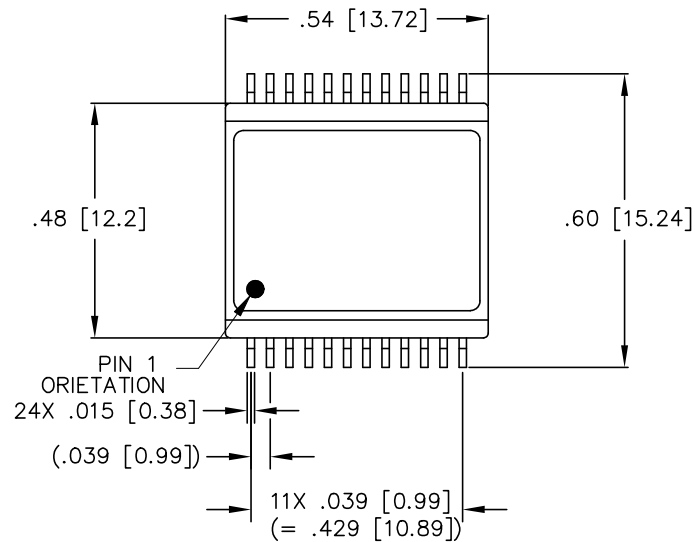
PARAMETER	SPECIFICATIONS		
OPERATING TEMPERATURE	−40°C TO +125°C		
URNS RATIO	1.00 ± 2%		
POLARITY	PER SCHEMATIC		
INSERTION LOSS (SDD21)	100 KHz	1–400 MHz	500 MHz
	−3.0 dB MAX	−2.0 dB MAX (−1.0 dB TYP)	−3.0 dB MAX
RETURN LOSS (Z OUT = 100 OHM ± 1%)	1 MHz–100 MHz	100.1 MHz–500 MHz	
	−21 dB MIN	−10 + 17*LOG ₁₀ (f/400) dB MIN	
INDUCTANCE (OCL)	150 uH MIN @ 100 kHz, 100 mV		
CROSSTALK, ADJACENT CHANNELS (SDD21 – ADJ.)	1–100 MHz	100–500 MHz	
	−30 dB MIN	−22 dB MIN	
COMMON MODE REJECTION RATIO (SCC21)	1 MHz–100 MHz	100–300 MHz	300–500 MHz
	−35 dB MIN	−30 dB MIN	−25 dB MIN
COMM. TO DIFF. REJECTION RATIO (SDC12)	1–250 MHz	250–500 MHz	
	−30 dB MIN	−22 dB MIN	
INPUT – OUTPUT ISOLATION	1500 VRMS MIN @ 60 SECONDS		

NOTE: 1. f IS FREQUENCY IN MHz.

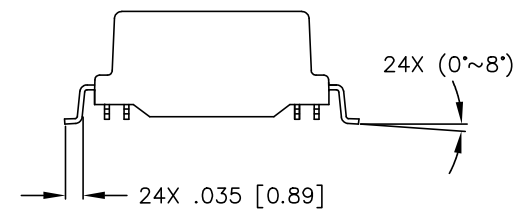
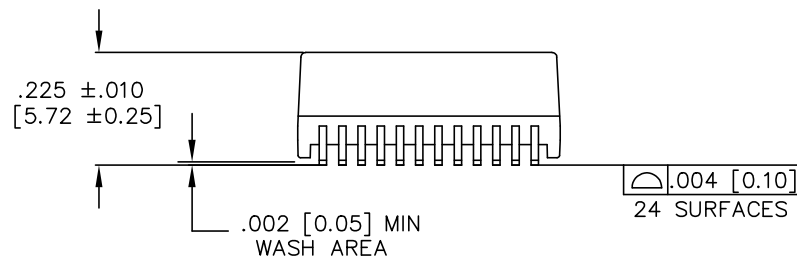
2. "▽" IS SPECIAL CHARACTERISTIC.

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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,10G,1:1,GEN2,SM,TU	HM7142NL-P4	PS-2517.001-B	2 OF 3	HM7142NL	C



SUGGESTED LAND PATTERN



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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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,10G,1: 1,GEN2,SM,TU	HM7142NL-P4	PS-2517.001-B	3 OF 3	HM7142NL	C

Mouser Electronics

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