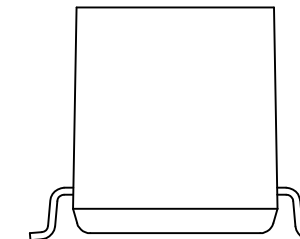
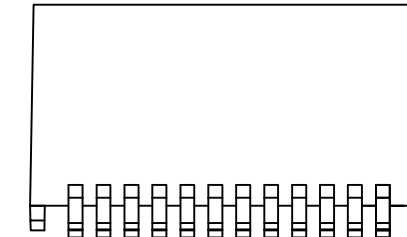
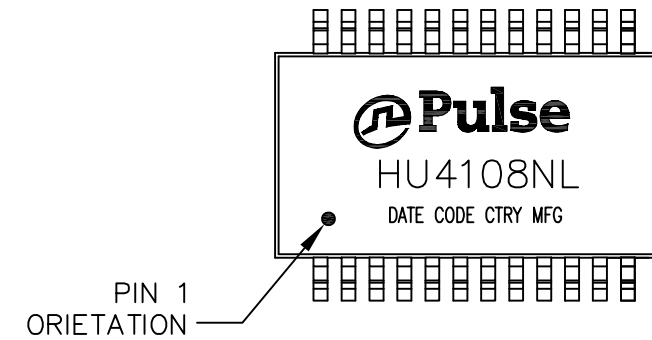


NOTES:

1. ROHS COMPLIANT
2. HEADER: DAP (DIALLYL PHTHALATE) WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. STORAGE TEMPERATURE: -20°C TO +125°C
4. COMPLIANCE TO J-STD:
  - A. J-STD-002: SOLDERABILITY AT 250°C REFLOW PROFILE
  - B. J-STD-020: LEVEL 1, NO MOISTURE SENSITIVE
  - C. J-STD-075: R7, 250°C MAXIMUM THROUGH REFLOW SOLDER
5. TO ORDER TAPE & REEL PACKAGING ADD A "T" SUFFIX  
TO THE PART NUMBER(i.e HU4108NL BECOMES HU4108NLT).

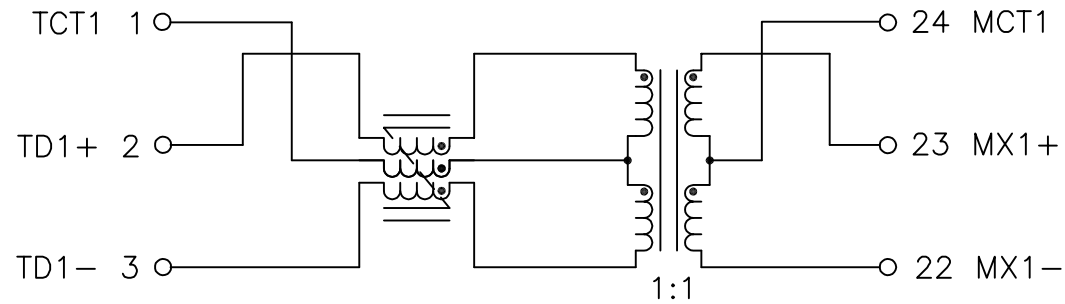


FINAL OUTLINE

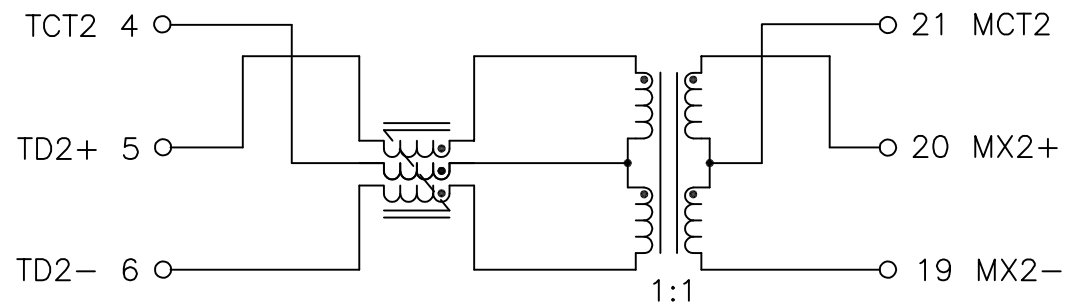
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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,2.5GPP,1:1,SM,TU	HU4108NL-P1	PS-2393.001-B	1 OF 3	HU4108NL	B

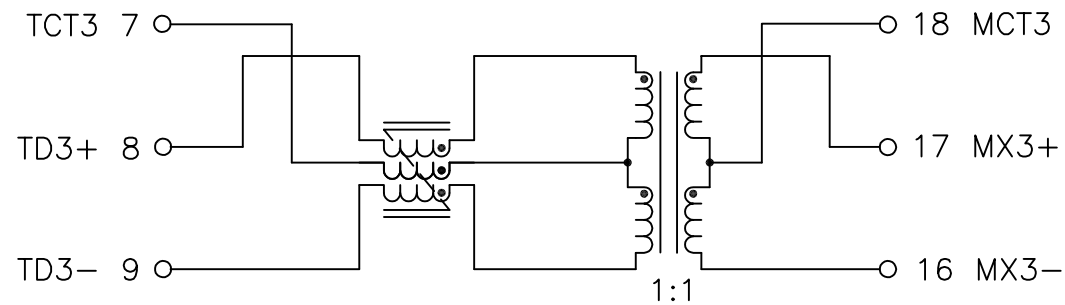
CHANNEL A



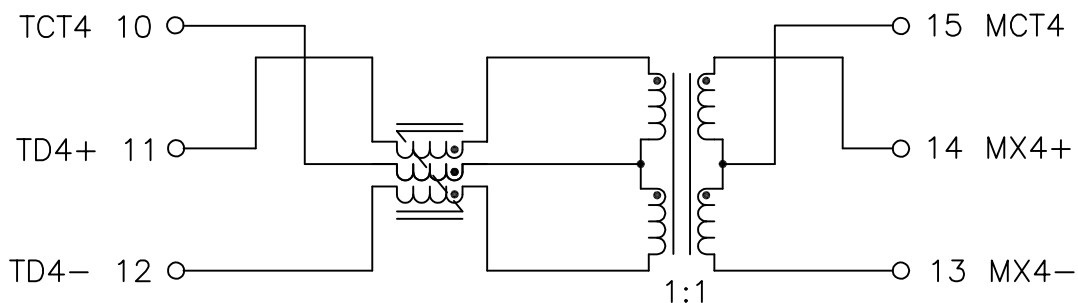
CHANNEL B



CHANNEL C



CHANNEL D



SCHEMATIC

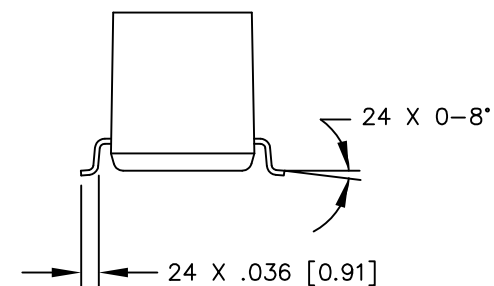
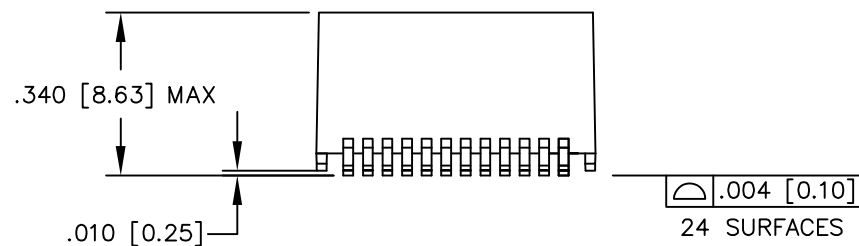
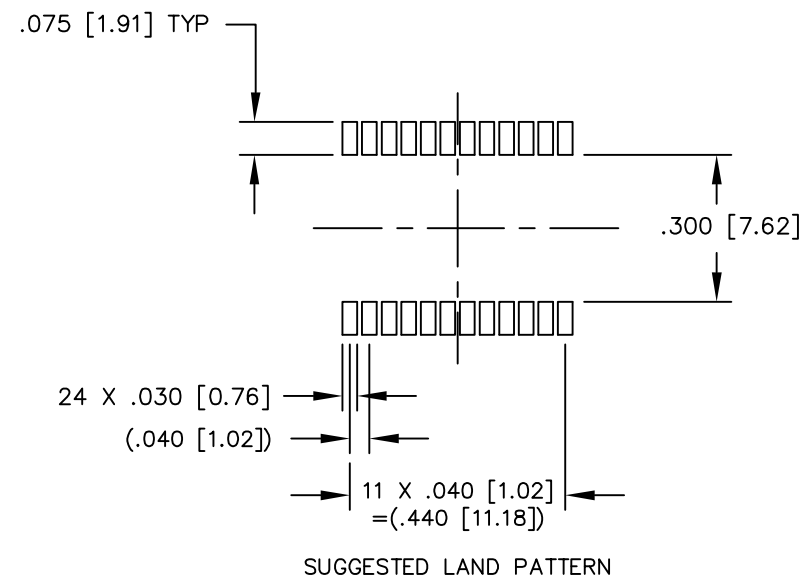
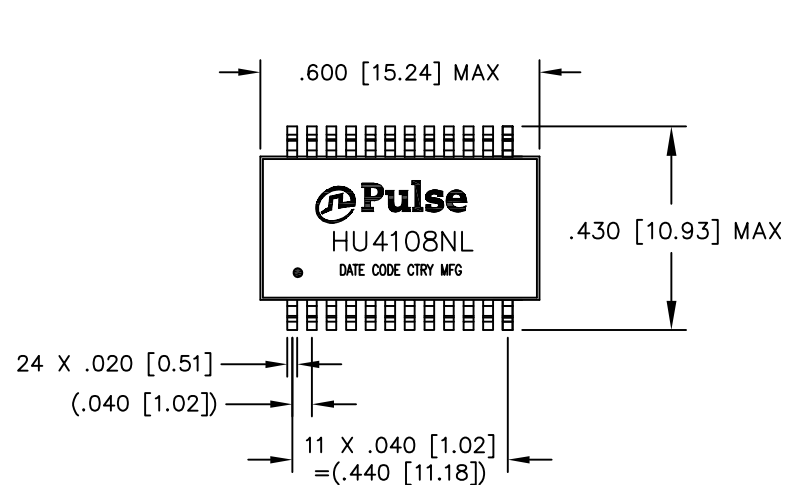
ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED  
MEETS IEEE 802.3 SPECIFICATION

PARAMETER	SPECIFICATIONS	
OPERATING TEMPERATURE	0°C TO +70°C	
TURNS RATIO	1.00 ± 2%	
POLARITY	PER SCHEMATIC	
INSERTION LOSS (SDD21&SDD12)	1–50 MHz	50–125 MHz
	–0.5 dB MAX	–1.0 dB MAX
PHY–SIDE RETURN LOSS (SDD11 – Zref = 100 OHMS ± 1%)	1 MHz–40 MHz	40 MHz–200 MHz
	–20 dB MIN	–20+15*LOG <sub>10</sub> (f/40) dB MIN
LINE–SIDE RETURN LOSS (SDD22 – Zref = 100 OHMS ± 1%)	1 MHz–40 MHz	40 MHz–200 MHz
	–20 dB MIN	–20+15*LOG <sub>10</sub> (f/40) dB MIN
INDUCTANCE (OCL)	150 uH MIN @ 100 kHz, 100 mV WITH 9 mA DC BIAS	
CROSSTALK, ADJACENT CHANNELS (SDD21 – ADJ.)	1–125 MHz	
	–30 dB MIN	
COMMON MODE REJECTION RATIO (SCC21)	30 MHz–200 MHz	
	–30 dB MIN	
COMM. TO DIFF. REJECTION RATIO (SDC12)	10 MHz–125 MHz	
	–45+f/35 dB MIN	
DC CURRENT/ VOLTAGE RATING	600 mA MAX @ 57 V (CONTINUOUS)	
INPUT – OUTPUT ISOLATION	1500 VRMS MIN @ 60 SECONDS	

NOTE: f IS FREQUENCY IN MHz.

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MDL,SIN,2.5GPP,1:1,SM,TU	HU4108NL–P1	PS–2393.001–B	2 OF 3	HU4108NL	B



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

.XX =  $\pm 0.01$  [ $\pm 0.25$ ]

.XXX =  $\pm 0.005$  [ $\pm 0.13$ ]

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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,2.5GPP,1:1,SM,TU	HU4108NL-P1	PS-2393.001-B	3 OF 3	HU4108NL	B

# Mouser Electronics

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