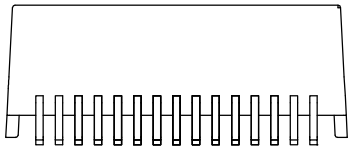
RoHS COMPLIANT

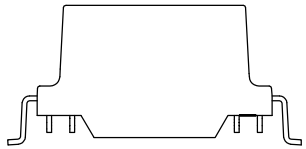
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NOTES:

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 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 H7137NL BECOMES H7137NLT).



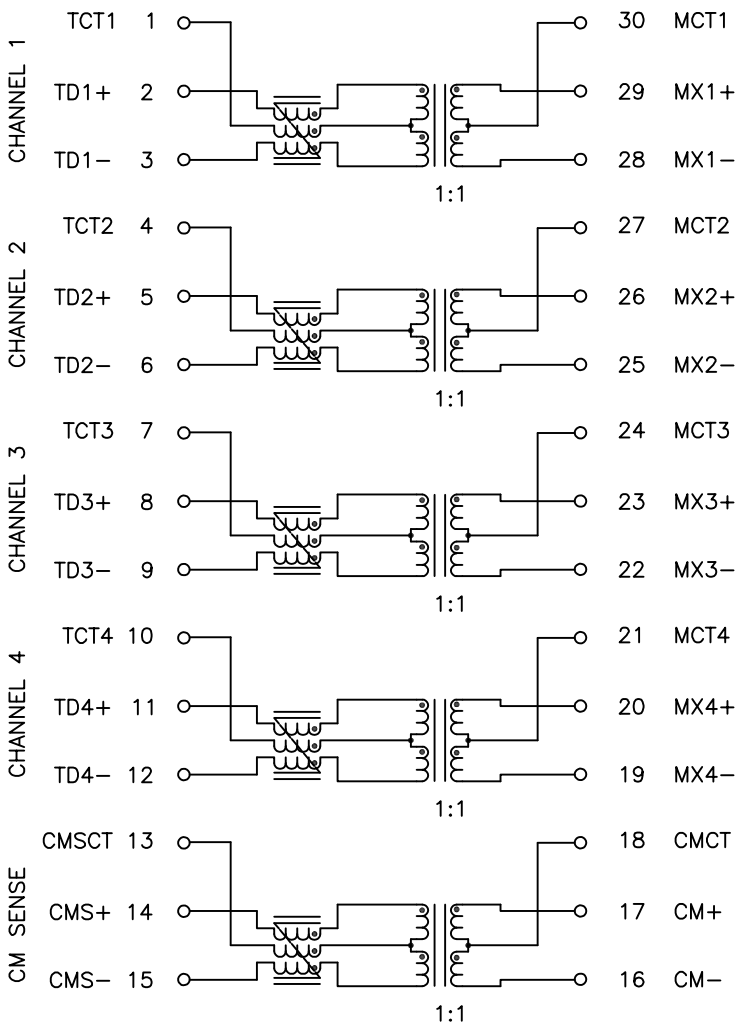




FINAL OUTLINE

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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,10GD,1:1,SM,CMS,180uH,2G,TU	H7137NL-14	PS-2578.001-B	1 OF 3	H7137NL	B



SCHEMATIC

ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED

MEETS IEEE 802.3 SPECIFICATION

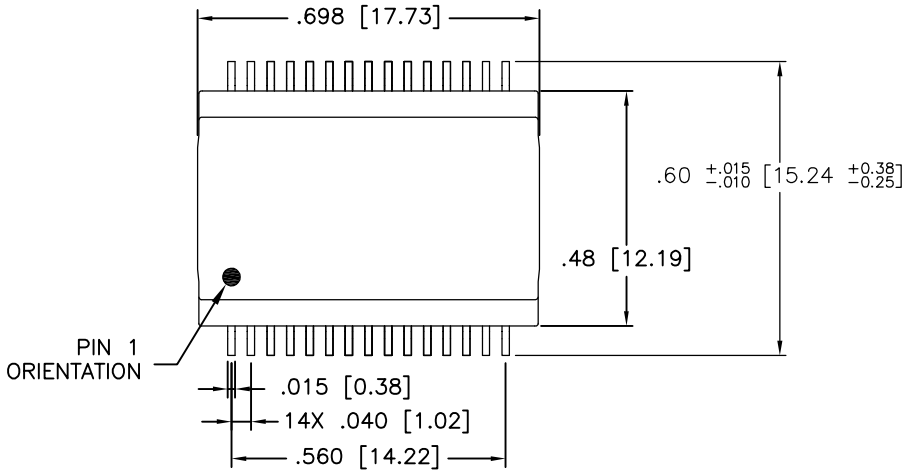
PARAMETER	SPECIFICATIONS		
OPERATING TEMPERATURE	0°C TO 70°C		
TURNS RATIO	1.00 ± 2%		
POLARITY	PER SCHEMATIC		
INSERTION LOSS (SDD21)	100 KHz	1–300 MHz	400 MHz
	−3.0 dB MAX	−1.0 dB MAX	−1.25 dB MAX
PHY–SIDE RETURN LOSS (SDD11 – Zref = 100 OHMS ± 1%)	1 MHz	2 MHz–100 MHz	100 MHz–500 MHz
	−23 dB MIN	−25 dB MIN	$-12+21.6*LOG_{10}(f/400)$ dB MIN
LINE–SIDE RETURN LOSS (SDD22 – Zref = 100 OHMS ± 1%)	1 MHz – 40 MHz	40 MHz – 400 MHz	400 MHz – 500 MHz
	−23 dB MIN	$-23+10*LOG_{10}(f/40)$ dB MIN	$-13+30*LOG_{10}(f/400)$ dB MIN
INDUCTANCE (OCL)	180 uH MIN @ 100 kHz, 100 mV		
CROSSTALK, ADJACENT CHANNELS (SDD21 – ADJ.)	1–100 MHz	100–500 MHz	
	−40 dB MIN	−30 dB MIN	
COMMON MODE REJECTION RATIO (SCC21)	1 MHz–100 MHz	100–300 MHz	300–500 MHz
	−37 dB MIN	−30 dB MIN	−25 dB MIN
COMM. TO DIFF. REJECTION RATIO (SDC12)	1 MHz–100 MHz	100–300 MHz	300–500 MHz
	−40 dB MIN	−30 dB MIN	−25 dB MIN
CURRENT RATING	PINS 1–15	PINS 16,17,19,20,22,23,25,26,28,29	PINS 18,21,24,27,30
	300 mA MIN	600 mA MIN	1000 mA MIN
INPUT – OUTPUT ISOLATION	1500 VRMS MIN @ 60 SECONDS		

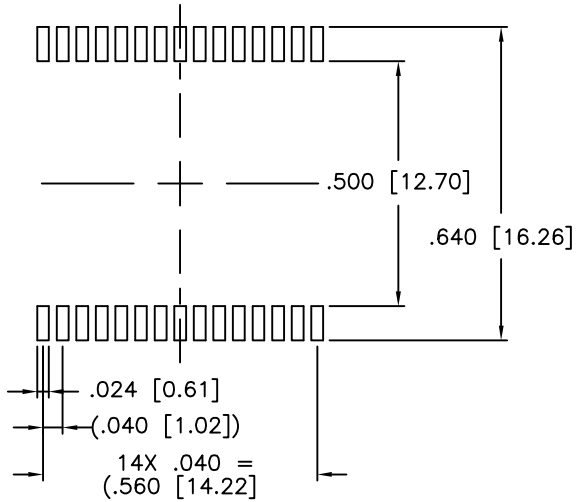
NOTE: f IS FREQUENCY IN MHz.

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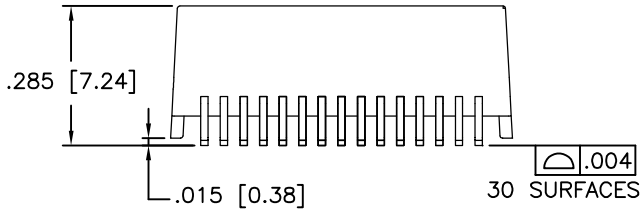
RoHS COMPLIANT

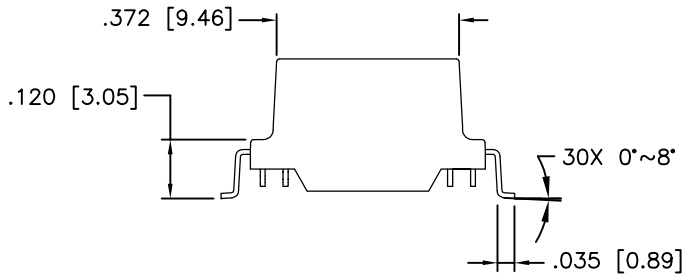
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SUGGESTED LAND PATTERN





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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MDL,SIN,10GD,1:1,SM,CMS,180uH,2G,TU	H7137NL−14	PS−2578.001−B	3 OF 3	H7137NL	B

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