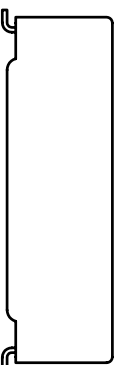
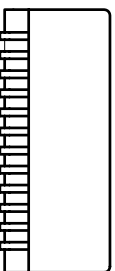
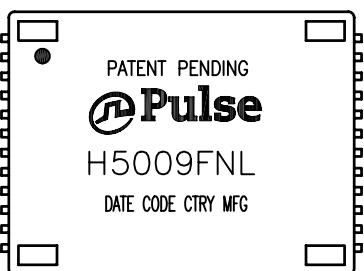


NOTES:

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 H5009FNL BECOMES H5009FNLT).

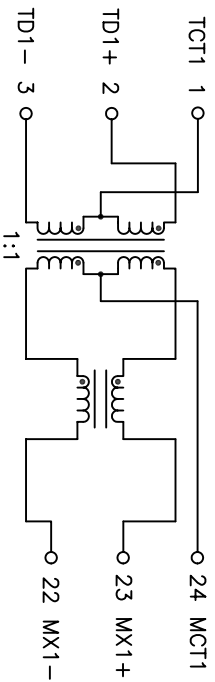


FINAL OUTLINE

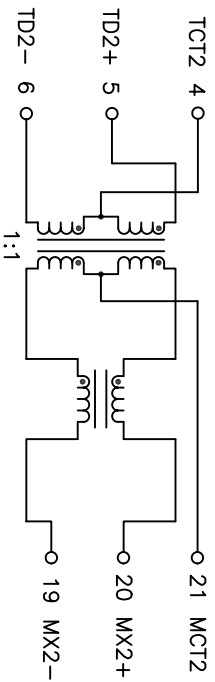
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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,1GD,1:1,SM,TU	H5009FNL-10	PS-2748,001-D	1 OF 3	H5009FNL	A

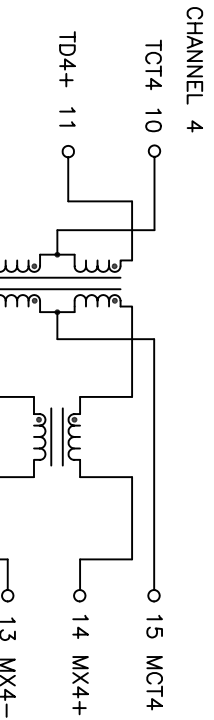
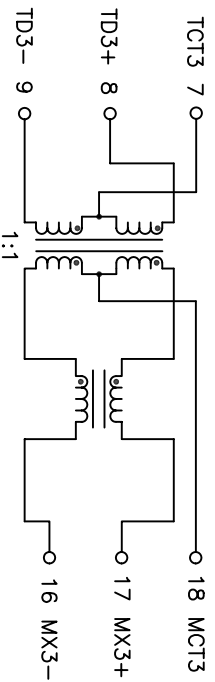
CHANNEL 1



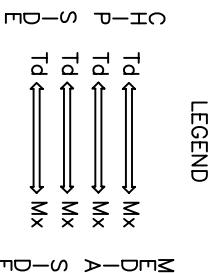
CHANNEL 2



CHANNEL 3



SCHEMATIC



ALL CHANNELS ARE IN PHASE BETWEEN INPUT AND OUTPUT

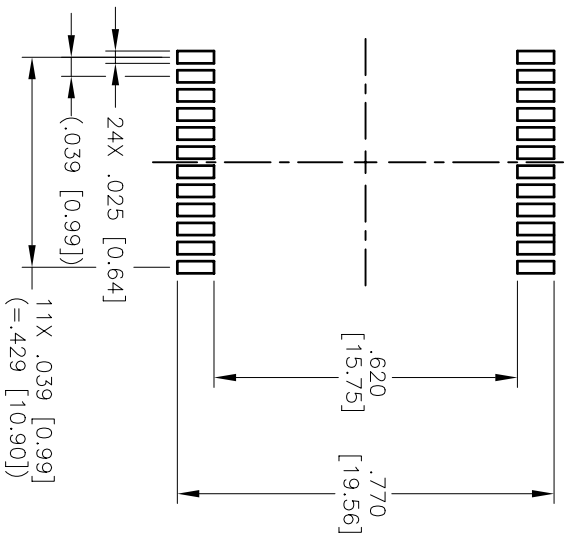
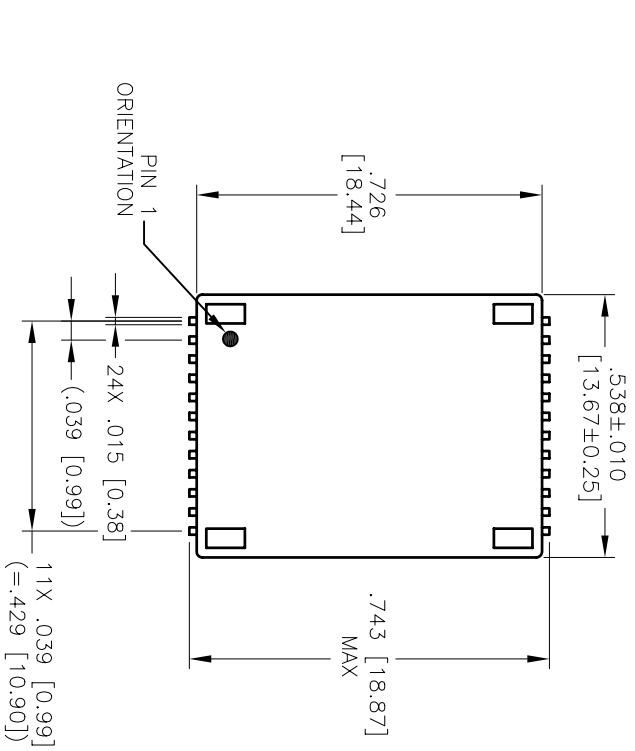
ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED  
MEETS IEEE 802.3 SPECIFICATION

PARAMETER	SPECIFICATIONS	
OPERATING TEMP	0°C - 70 °C	
TURNS RATIO	1.00 ± 2%	
POLARITY	PER SCHEMATIC	
INSERTION LOSS	100 KHZ	1-125 MHZ
	-1.2 DB MAX	-0.2-0.002*f <sup>1.4</sup> DB MAX
RETURN LOSS	.1-40 MHZ	40-100 MHZ
(Z OUT = 100 OHM ±15%)	-16 DB MIN	-10+20*LOG <sub>10</sub> (f/80 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)
	1 MHZ	10-100 MHZ
CROSSTALK, ADJACENT CHANNELS	-50 DB MIN	-55+22*LOG <sub>10</sub> (f/10) DB MIN
	2 MHZ	30-200 MHZ
COMMON MODE REJECTION RATIO	-50 DB MIN	-15+20*LOG <sub>10</sub> (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	

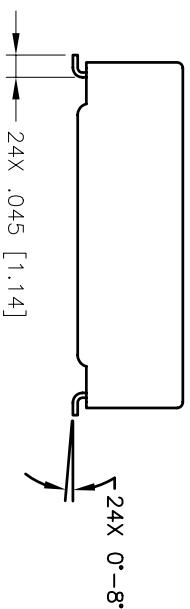
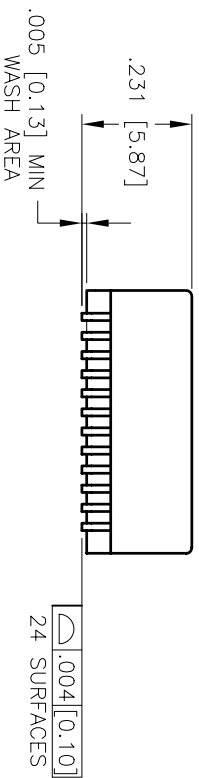
NOTE: f IS FREQUENCY IN MHZ.

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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,1GD,1:1,SM,TU	H5009FNL-10	PS-2748,001-D	2 OF 3	H5009FNL	A



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,1GD,1:1,SM,TU	H5009FNL-10	PS-2748,001-D	3 OF 3	H5009FNL	A