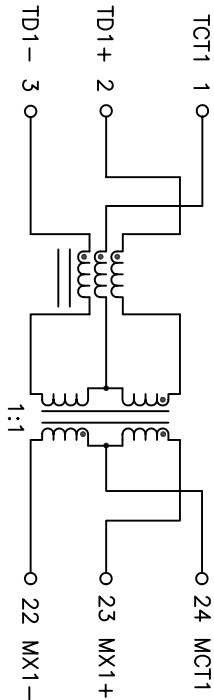
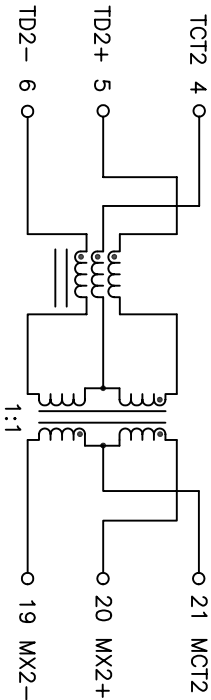


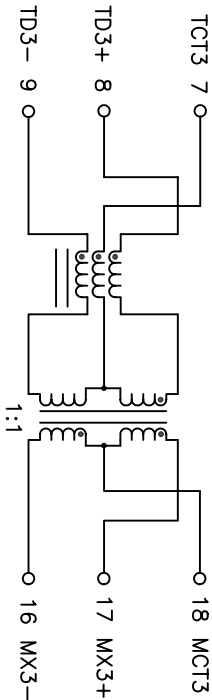
CHANNEL 1



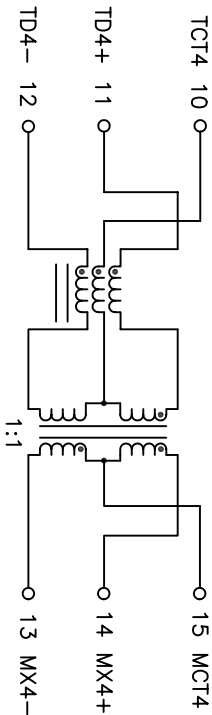
CHANNEL 2



CHANNEL 3



CHANNEL 4



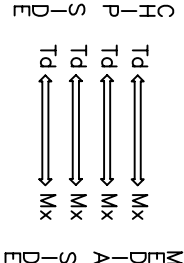
SCHEMATIC

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

PARAMETER	SPECIFICATIONS			
OPERATING TEMP	-40°C ~ +85°C			
TURNS RATIO	1.00 ± 2%			
POLARITY	PER SCHEMATIC			
INDUCTANCE (OCL) (MEDIA SIDE, -40~+85°C)	350 uH MIN (MEASURED AT 100 KHz, 100 mVRMS) (WITH 8 mA DC BIAS)			
INSERTION LOSS	100 KHz	1-100 MHz	125 MHz	
	-1.2 dB MAX	-1.0 dB MAX	-3.0 dB MAX	
	1-40 MHz		40-100 MHz	
RETURN LOSS (Z OUT = 100 OHM ±15%)	-16 dB MIN	-18 dB MIN (ZOUT=100 OHMS)	-10+20*LOG ₁₀ (f/80) dB MIN	
CROSSTALK	1 MHz	30-100 MHz		
	-50 dB MIN	-55+24*LOG ₁₀ (f/10) dB MIN		
DIFFERENTIAL TO COMMON MODE REJECTION	2 MHz	30-100 MHz		
	-50 dB MIN	-43+22*LOG ₁₀ (f/30) dB MIN		
INPUT - OUTPUT ISOLATION	1500 VRMS @ 60 SECONDS			

NOTE: f IS FREQUENCY IN MHZ.

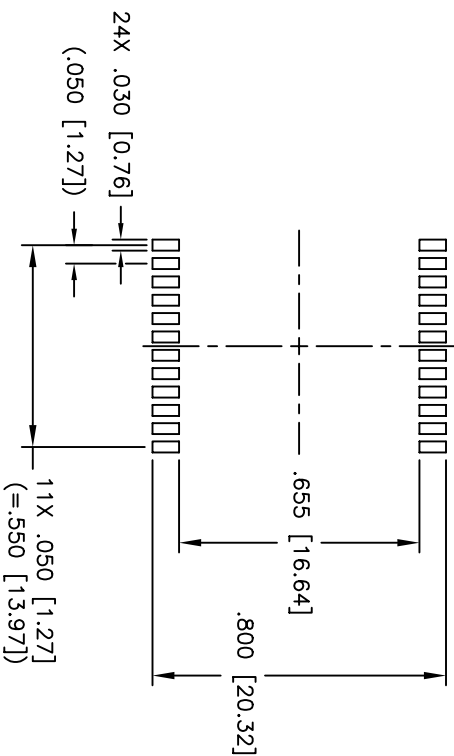
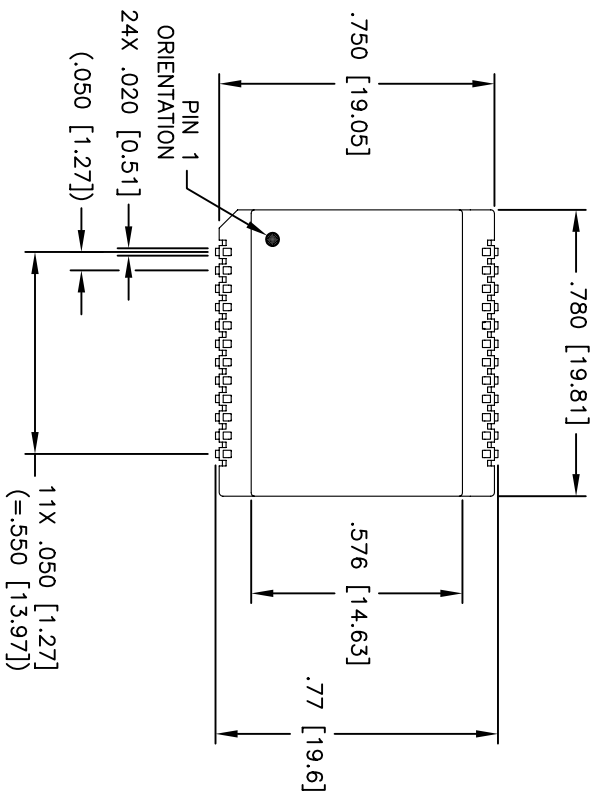
LEGEND



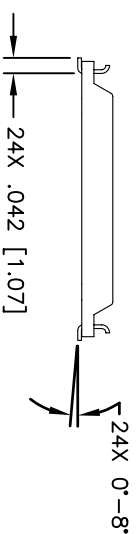
ALL CHANNELS ARE
IN PHASE BETWEEN
INPUT AND OUTPUT

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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATSHEET REV.
MDL,SIN,1GD,1:1,SM,TU	HX5019FNL-10	PS-2761.001-A	2 OF 3	HX5019FNL	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	T/LA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,1GD,1:1,SM,TU	HX5019FNL-10	PS-2761.001-A	3 OF 3	HX5019FNL	A