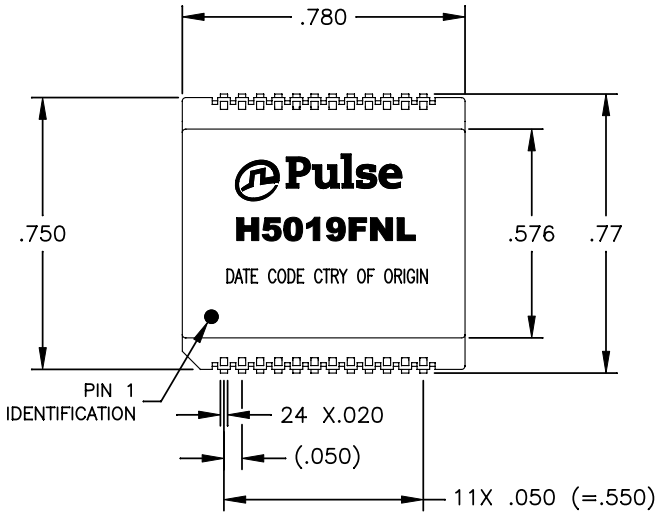
Pulse Electronics
www.pulseelectronics.com

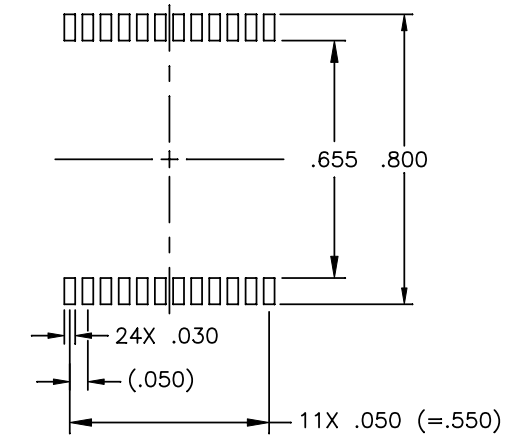
NOTES: UNLESS OTHERWISE SPECIFIED

1.

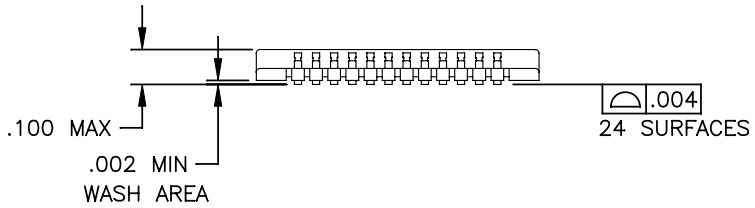
NOTICE:	THIS IS A RoHS COMPLIANT COMPONENT/PRODUCT. ALL ENGINEERING CHANGES MUST HAVE PRIOR APPROVAL BY THE DESIGN CENTER.
RoHS ✓	

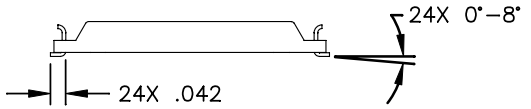
2. PLASTIC: THERMOSET PLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V–0 OR BETTER.
3. SOLDERABILITY: CONFORMS TO ANSI/J–STD–002, 245°C REFLOW PEAK TEMPERATURE PER IPC/EIA J–STD–003A
4. OPERATING TEMPERATURE: 0°C TO +70°C
5. STORAGE TEMPERATURE: –20°C TO +125°C
6. JEDEC MOISTURE: LEVEL 1.
7. DIMENSIONS ARE IN INCHES WITH THE FOLLOWING TOLERANCES:
   .XX= ±.02
   .XXX= ±.010
8. REVISION: MP1,MP2, ... ARE PRELIMINARY.



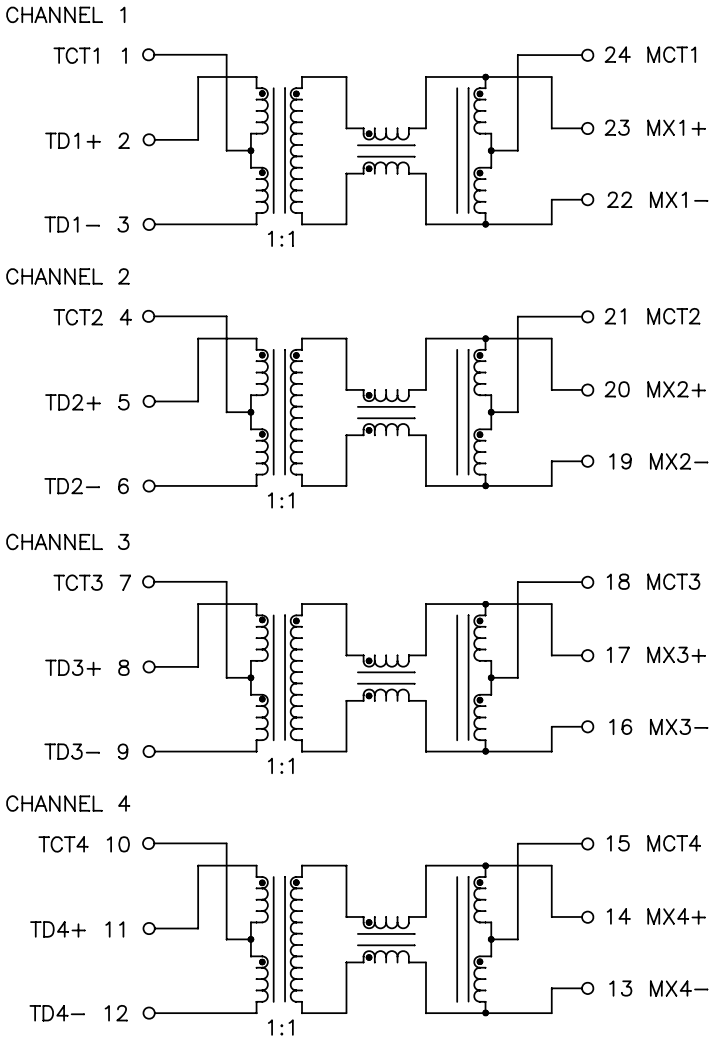


SUGGESTED LAND PATTERN





PULSE CONFIDENTIAL & PROPRIETARY	PRODUCT DESCRIPTION	PS DRAWING	SHEET:	DWG. NO./ PART NO.	REV.
	MDL,SIN,1GD,1:1,SM,TU	PS–2761.001–A	1	H5019FNL	MP1



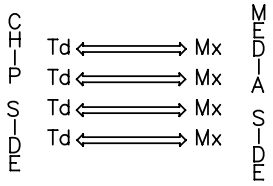
SCHEMATIE

ELECTRICAL CHARACTERISTICS AT +25°C

PARAMETER	SPECIFICATIONS		
OPERATING TEMP	0°C – 70 °C		
TURNS RATIO	1 : 1 ±2%		
POLARITY	PER SCHEMATIC		
OCL, TRANSMIT CHANNEL	350 uh MIN. WITH 8mA DC BIAS, −0 TO 70 °C		
INSERTION LOSS	100 KHz	1−100 MHz	125 MHz
	−1.2 dB MAX	−1.0 dB MAX	−3.0 dB MAX
RETURN LOSS (Z OUT = 100 OHM ±15%)	1−40 MHz		40−100 MHz
	−16 dB MIN	−18 dB MIN (ZOUT=100 OHMS)	$-10+20*LOG_{10}(f/80)$ dB MIN
CROSSTALK (TX−RX)	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

PULSE CONFIDENTIAL & PROPRIETARY	PRODUCT DESCRIPTION	PS DRAWING	SHEET:	DWG. NO./ PART NO.	REV.
	MDL,SIN,1GD,1:1,SM,TU	PS−2761.001−A	2	H5019FNL	MP1