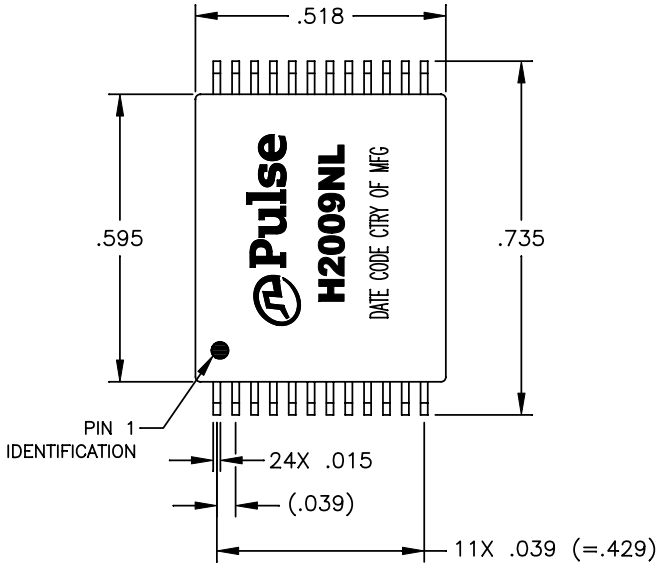
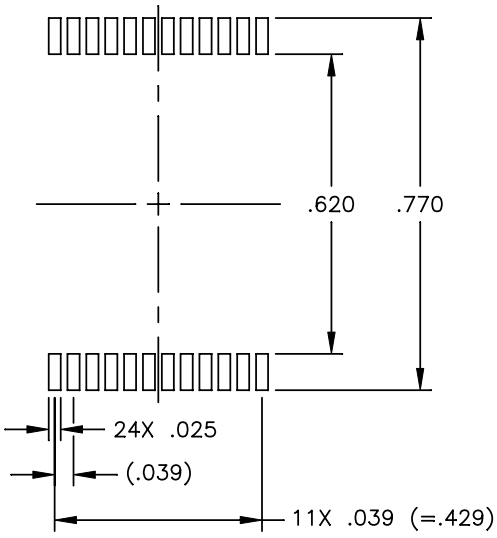
Pulse Electronics
www.pulseelectronics.com

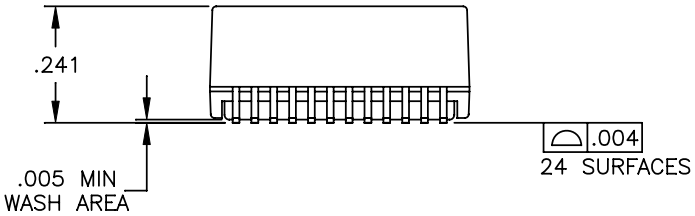
NOTES: UNLESS OTHERWISE SPECIFIED

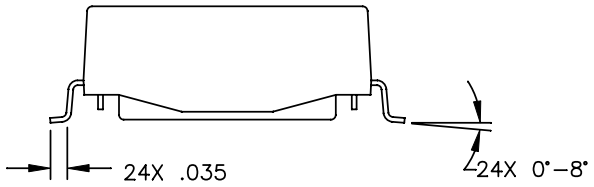
1. | NOTICE: | THIS IS A RoHS COMPLIANT COMPONENT/PRODUCT. ALL ENGINEERING CHANGES MUST HAVE PRIOR APPROVAL BY THE DESIGN CENTER. |
   | RoHS ✓ | |
2. PLASTIC: THERMOSET PLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V–0 OR BETTER.
3. SOLDERABILITY: CONFORMS TO ANSI/J–STD–002, 245°C REFLOW PEAK TEMPERATURE 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



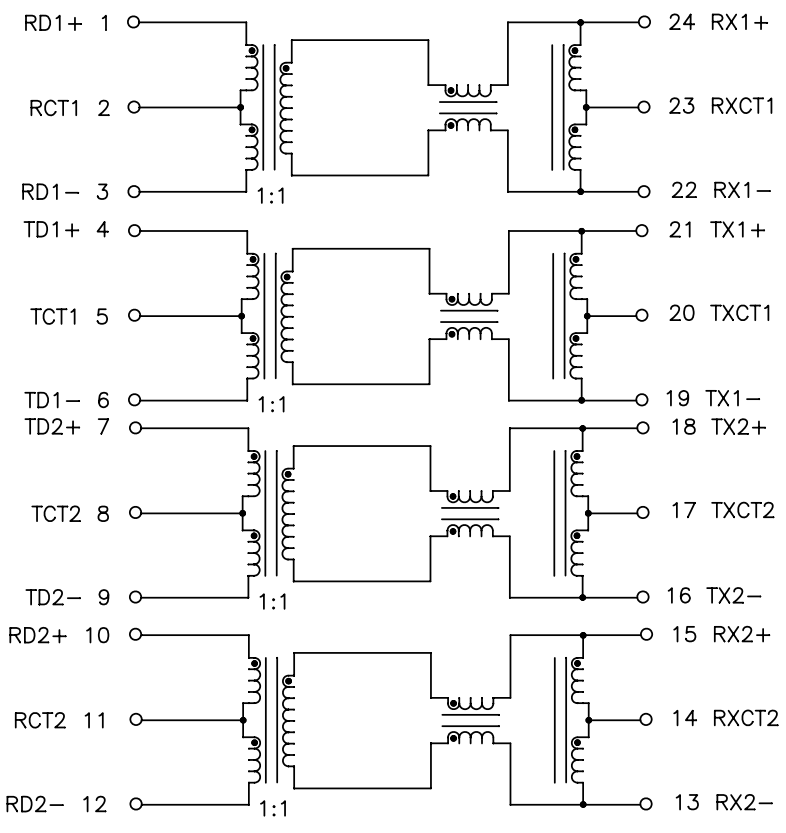


SUGGESTED LAND PATTERN

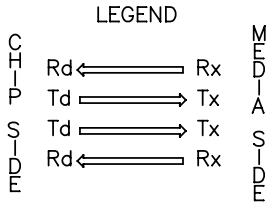




PULSE CONFIDENTIAL & PROPRIETARY	PRODUCT DESCRIPTION	PS DRAWING	SHEET:	DWG. NO./ PART NO.	REV.
	MDL,DUAL,100P,1:1,SM,OH	PS–0118.001–D	1	H2009NL	M17



SCHEMATIC



ALL CHANNELS ARE IN−PHASE BETWEEN INPUT AND OUTPUT

ELECTRICAL CHARACTERISTICS AT +25°C

PARAMETER	SPECIFICATIONS		
OPERATING TEMP	0°C − 70 °C		
TURNS RATIO	1.00 ± 2%		
POLARITY	PER SCHEMATIC		
INSERTION LOSS	100 KHz	1−100 MHz	
	−1.2 dB MAX	−0.2−0.002*f ^1.4 dB MAX	
RETURN LOSS (Z OUT = 100 OHM ±15%)	.1−30 MHz	30−60 MHz	60−80 MHz
	−16 dB MIN	−10+20*LOG$_{10}$ (f/60 MHz) dB MIN	−10 dB MIN
INDUCTANCE (OCL) (MEDIA SIDE ACROSS PINS 13−15, 16−18, 19−21, 22−24), 0°C−70°C	350 uH MIN	(MEASURED AT 100 KHz, 100 mVRMS AND WITH 8 mA DC BIAS)	
CROSSTALK, ADJACENT CHANNELS	1 MHz	10−100 MHz	
	−50 dB MIN	−55+22*LOG $_{10}$(f/10) dB MIN	
DIFFERENTIAL TO COMMON MODE REJECTION	2 MHz	30−200 MHz	
	−50 dB MIN	−43+22*LOG $_{10}$(f/30) dB MIN	
DC RESISTANCE, 1/2 WINDING	.65 OHMS MAX (MEASURED AT PINS 24−23/23−22; 21−20/20−19; 18−17/17−16; 15−14/14−13)		
DC RESISTANCE IMBALANCE	PIN (24−23) − PIN (23−22) = ±.065 OHMS MAX PIN (21−20) − PIN (20−19) = ±.065 OHMS MAX PIN (18−17) − PIN (17−16) = ±.065 OHMS MAX PIN (15−14) − PIN (14−13) = ±.065 OHMS MAX		
INPUT − OUTPUT ISOLATION	1500 VRMS MIN @ 60 SECONDS		

NOTE: f IS FREQUENCY IN MHz.

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