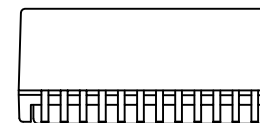
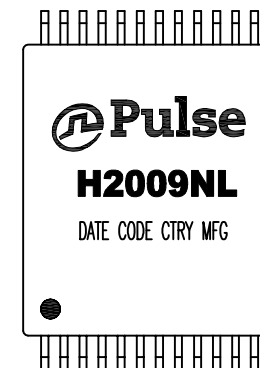


NOTES:

1. ROHS COMPLIANT
2. HEADER: THERMOSET PLASTIC MATERIAL 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 H2009NL BECOMES H2009NLT).

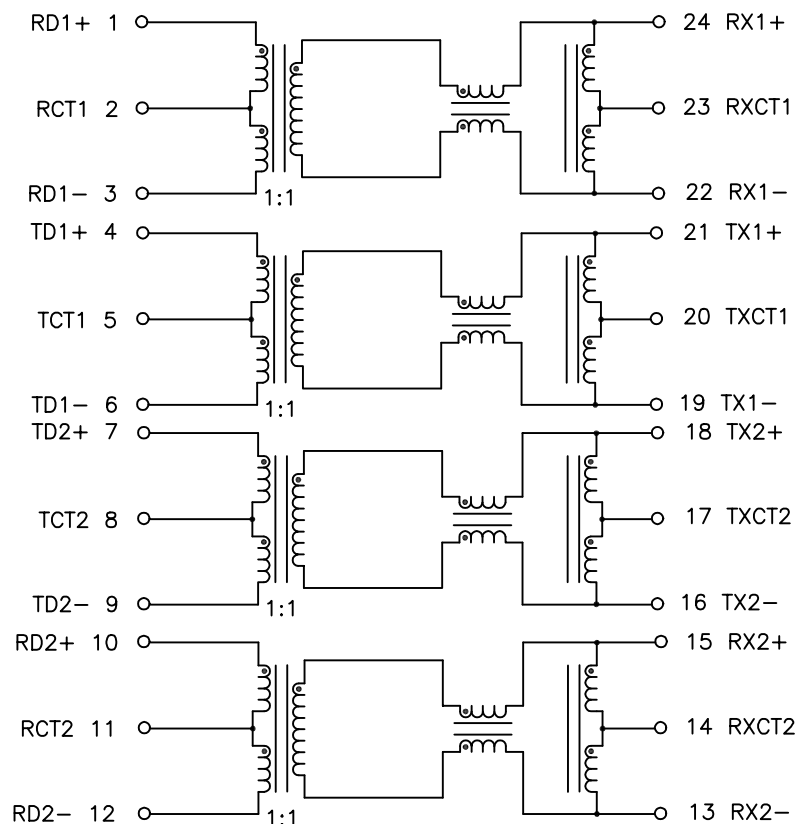


FINAL OUTLINE

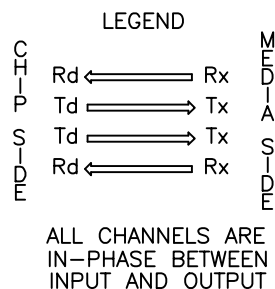
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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,DUAL,100P,1:1,SM,OH	H2009NL-17	PS-0118.001-D	1 OF 3	H2009NL	A

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



SCHEMATIC

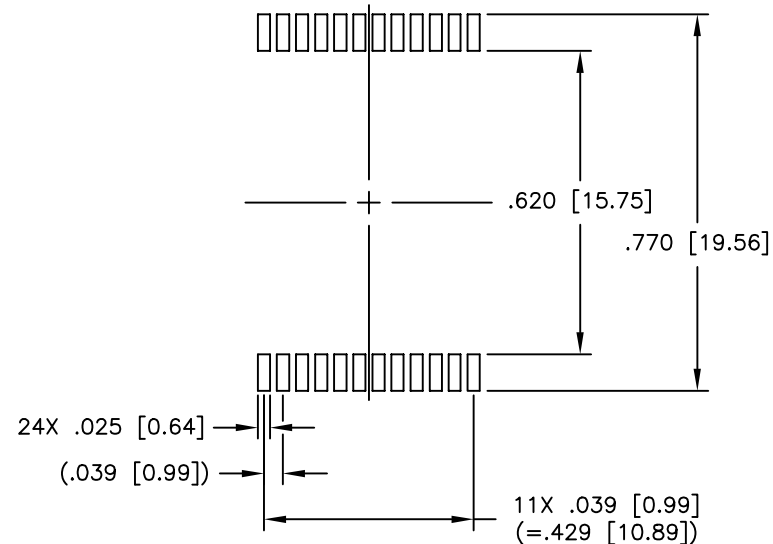
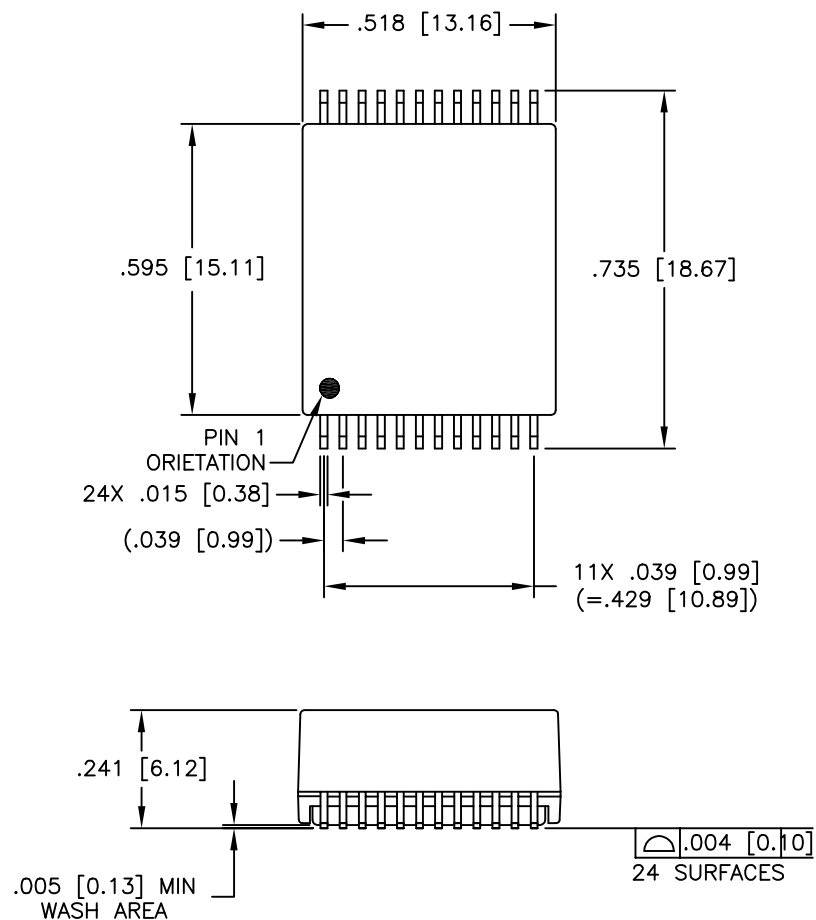


PARAMETER	SPECIFICATIONS		
OPERATING TEMP	0°C – 70 °C		
URNS RATIO	1.00 ± 2%		
POLARITY	PER SCHEMATIC		
INSERTION LOSS	100 KHz	1–100 MHz	
	–1.2 dB MAX	–0.2–0.002*f ^{1.4} dB MAX	
RETURN LOSS (Z OUT = 100 OHM ±15%)	.1–30 MHz	30–60 MHz	60–80 MHz
	–16 dB MIN	–10+20*LOG ₁₀ (f/60 MHz) dB MIN	–10 dB MIN
INDUCTANCE (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		

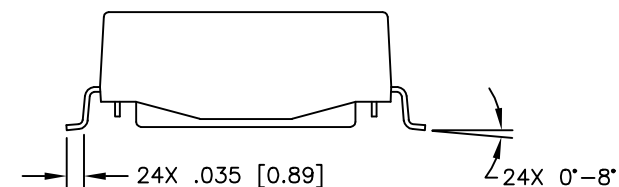
NOTE: f IS FREQUENCY IN MHz.

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MDL,DUAL,100P,1:1,SM,OH	H2009NL–17	PS–0118.001–D	2 OF 3	H2009NL	A



SUGGESTED LAND PATTERN



DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.
 .XX= ± 0.02 [± 0.5]
 .XXX= ± 0.010 [± 0.25]

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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,DUAL,100P,1:1,SM,OH	H2009NL-17	PS-0118.001-D	3 OF 3	H2009NL	A