RoHS COMPLIANT

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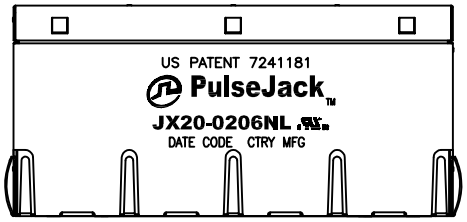
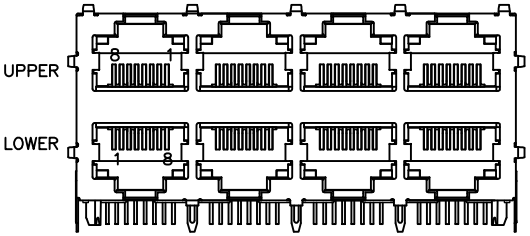
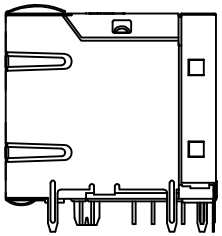
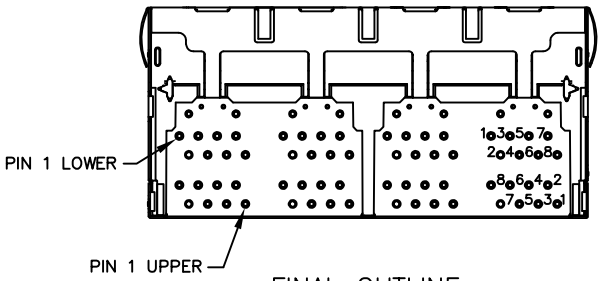
NOTES:

1. ROHS COMPLIANT
2. PLASTIC HOUSING: THERMOPLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. CONTACTS PLATING: 30 MICROINCHES GOLD PLATING.
4. CONTACTS BASE MATERIAL: PHOSPHOR BRONZE
5. CONTACTS UNDERPLATE: 30-50 MICROINCHES DUCTILE NICKEL.
6. SOLDER TAIL PLATING : 200-500 uINCHES 100% TIN, MATTE FINISH.
7. METAL SHIELD: NICKEL PLATING ON COPPER ALLOY.
8. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68 SUBPART.
9. PCB PLATING: HASL (TOP PCB), ENIG (BOTTOM PCB)
10. STORAGE TEMPERATURE: -50°C TO +125°C
11. COMPLIANCE TO J-STD:
    - A. J-STD-002: SOLDERABILITY AT 245°C DIP AND LOOK TEST
    - B. J-STD-020: LEVEL 1, NO MOISTURE SENSITIVE
    - C. J-STD-075: W2, 270°C MAXIMUM THROUGH WAVE SOLDER









FINAL OUTLINE

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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
CONN,RJ45,2X4,100D,1:1,TY	JX20-0206NL-12	PS-2315.202-A	1 OF 5	JX20-0206NL	A

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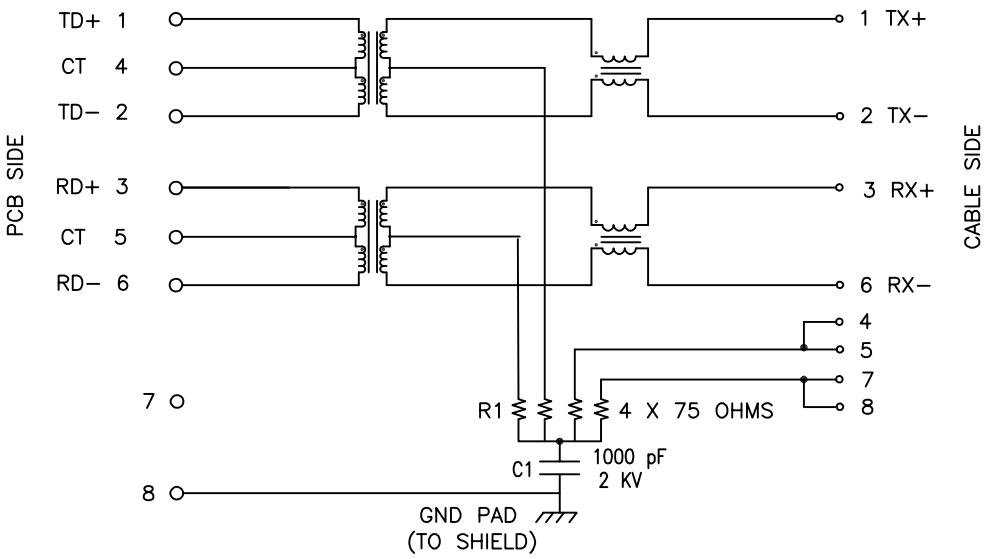

SCHEMATIC

NOTE: SINGAL PINS 7 IS NOT POPULATED

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

PARAMETER		SPECIFICATIONS		
OPERATING TEMP		−40°C TO +85°C		
TURNS RATIO		1 : 1 ±2%		
POLARITY		PER SCHECMATIC		
INSERTION LOSS		100 KHz	1−125 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, −40°C~+85°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	
COMMON MODE REJECTION RATIO		2 MHz	30−200 MHz	
		−50 dB MIN	$-15+20*LOG_{10}(f/200)$ dB MIN	
DC RESISTANCE, 1/2 WINDING		0.65 OHM MAX		
DC RESISTANCE, IMBALANCE		±.065 OHMS MAX (CENTOR TAP SYSMMETRY)		
ISOLATION	INPUT − OUTPUT	2250 VDC MIN FOR 60 SECONDS		
	SIGNAL PINS (1−6) TO SHIELD	1500 VDC MIN FOR 60 SECONDS		
	PORT − PORT	1500 VDC MIN FOR 60 SECONDS		

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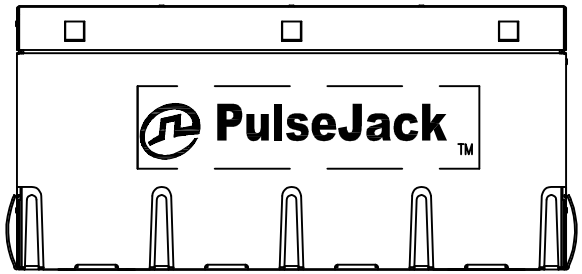

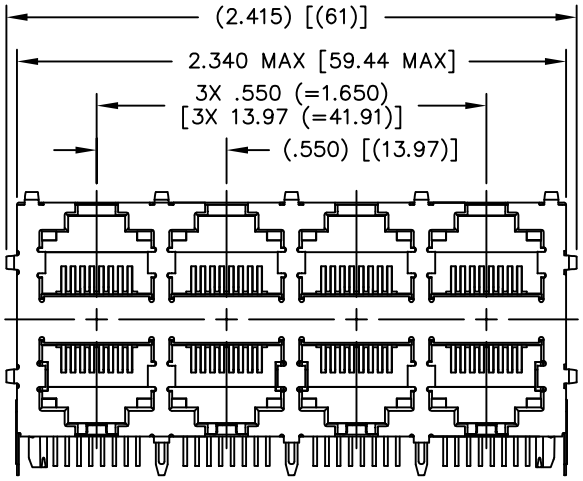

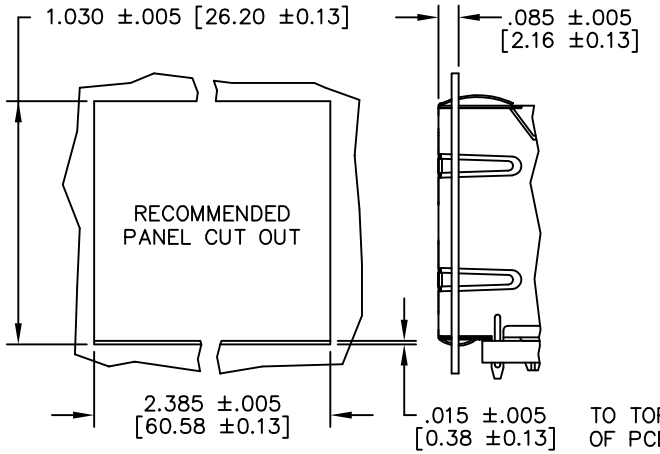

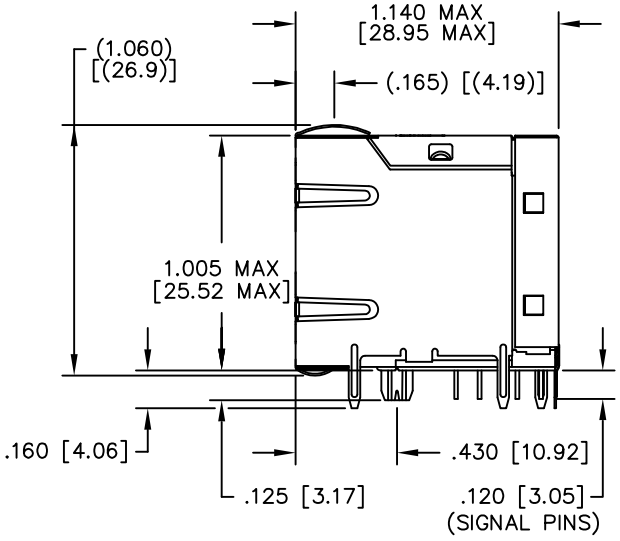

DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING
TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.
.XX= ±.02 [±0.5]
.XXX= ±.010 [±0.25]

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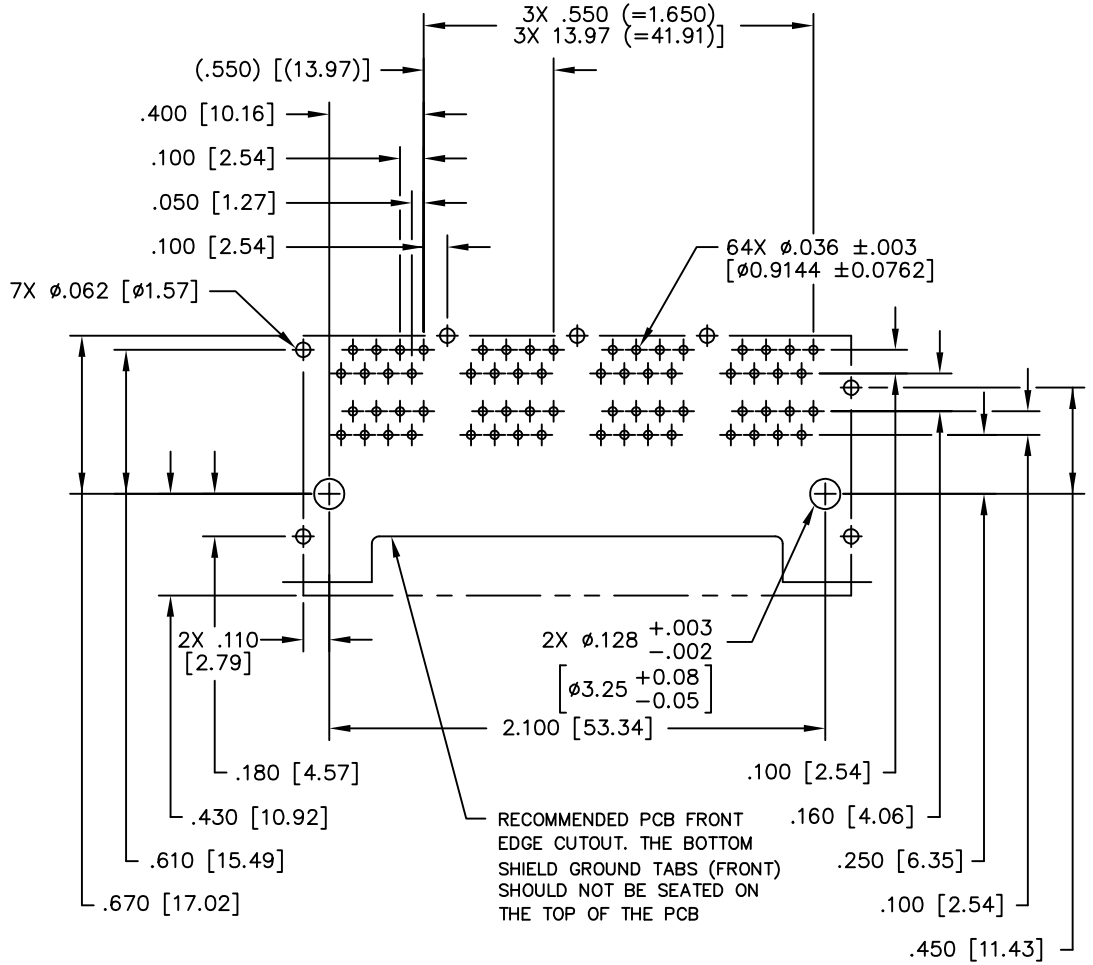

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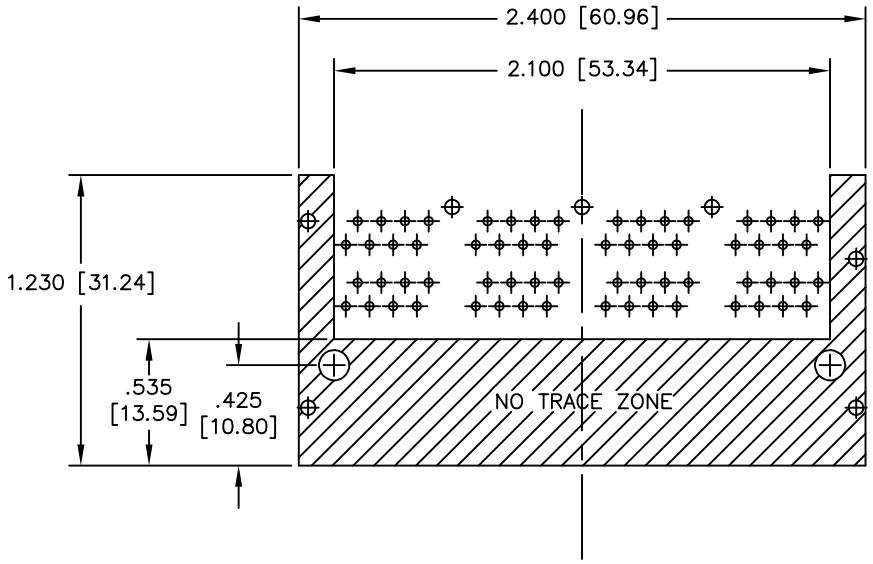

SUGGESTED PC BOARD LAYOUT VIEWED FROM COMPONENT SIDE
UNLESS OTHERWISE SPECIFIED DIMENSIONAL TOLERANCE IS ±.002

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