

NOTICE: THE INFORMATION AND DESIGN CONTAINED HEREIN IS THE PROPERTY OF PULSE WHO RESERVES ALL RIGHTS THERETO.

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NOTES: UNLESS OTHERWISE SPECIFIED

1. THIS COMPONENT CONFORMS TO UL60950. UL FILE NO. IS: E216117.

WARNING:	THIS COMPONENT IS RECOGNIZED BY ONE OR MORE SAFETY AGENCIES SUCH AS UL, VDE, CSA AND/OR TUV. ALL ENGINEERING CHANGES MUST HAVE PRIOR APPROVAL BY THE DESIGN CENTER QUALITY DEPARTMENT FOR SAFETY AGENCY COMPLIANCE.	ECN APPROVAL: QA APPROVAL: DATE:
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NOTICE:	THIS IS A RoHS COMPLIANT COMPONENT/PRODUCT.
RoHS	✓ ALL ENGINEERING CHANGES MUST HAVE PRIOR APPROVAL BY THE DESIGN CENTER.

2. PLASTIC HOUSING: THERMOPLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. CONTACT BASE MATERIAL: PHOSPHOR BRONZE.
4. CONTACTS UNDERPLATE: 50 MICROINCHES DUCTILE NICKEL.
5. CONTACTS PLATING: 15 MICRO-INCH GOLD PLATING.
6. SOLDER TAIL PLATING MATERIAL: 120 MICROINCHES 100% TIN, MATTE FINISH.
7. METAL SHIELD: NICKEL PLATING ON COPPER ALLOY.
8. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68 SUBPART F.
9. PCB PLATING: EG.
10. SOLDERABILITY: CONFORMS TO ANSI/J-STD-002, IPC/EIA J-STD-003A.
11. OPERATING TEMPERATURE: 0°C TO +70°C
12. STORAGE TEMPERATURE: -20°C TO +125°C
13. JEDEC MOISTURE: LEVEL 1.
14. REVISION: MX1,MX2, ARE PRELIMINARY.

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PRODUCT SPECIFICATION

TITLE		
CONN,RJ45,1X1,100D,1.414:1,TU		
SIZE	CAGE CODE	DWG. NO.
B	01961	J00-0086NL
SCALE	CADD FILE	REV.
NONE	M-J00-0086NL-1	M11
SHEET 1 OF 5		

J00-0086NL

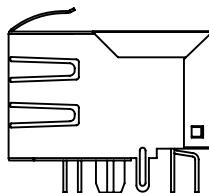
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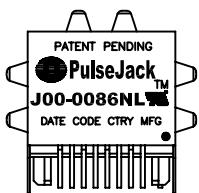
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SIDE VIEW



BACK VIEW

Electrical @ 25°C

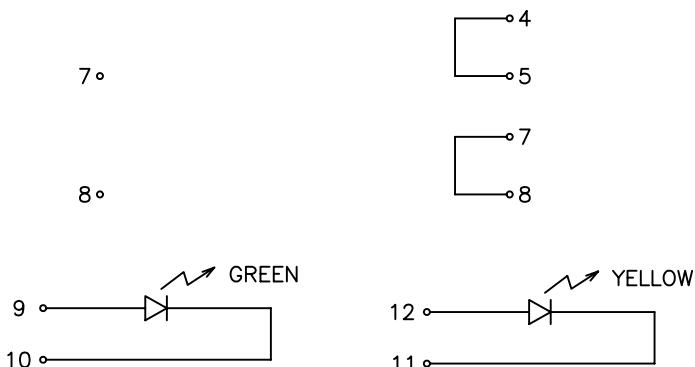
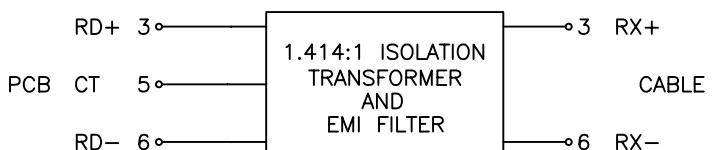
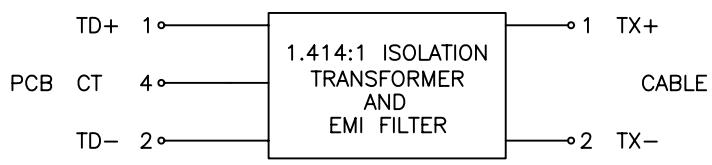
PARAMETER	SPECIFICATIONS	
INSERTION LOSS	100 KHz	1-125 MHz
	-1.2 dB MAX	-0.2-0.002*f^1.4 dB MAX
RETURN LOSS (Z OUT = 100 OHM±15%)	.1-30 MHz	30-60 MHz 60-80 MHz
	-16 dB MIN	-10+20*LOG ₁₀ (f/60 MHz) dB MIN
INDUCTANCE (OCL) (MEDIA SIDE, 0°C-70°C)	350 uH MIN	(MEASURED AT 100 KHz, 100 mVRMS) (AND WITH 8 mA DC BIAS)
CROSSTALK, ADJACENT CHANNELS	1 MHz	10-100 MHz
	-50 dB MIN	-50+17*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	.60 OHMS MAX	
DC RESISTANCE IMBALANCE	±.065 OHMS MAX (CENTER TAP SYMMETRY)	
INPUT - OUTPUT ISOLATION	1500 VRMS MIN @ 60 SECONDS	

NOTE: f IS FREQUENCY IN MHz.

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SCHEMATIC

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SIZE	CAGE CODE	DWG. NO.
B	01961	J00-0086NL
SCALE	CADD FILE	REV.
NONE	M-J00-0086NL-2	M11
SHEET		2 OF 5

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J00-0086NL

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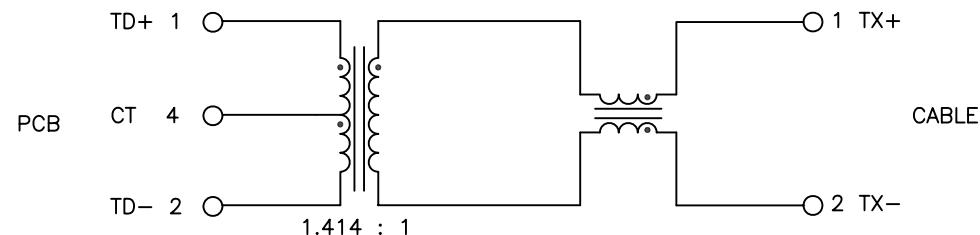
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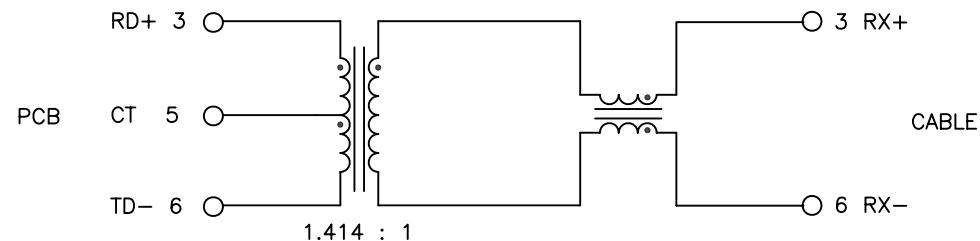
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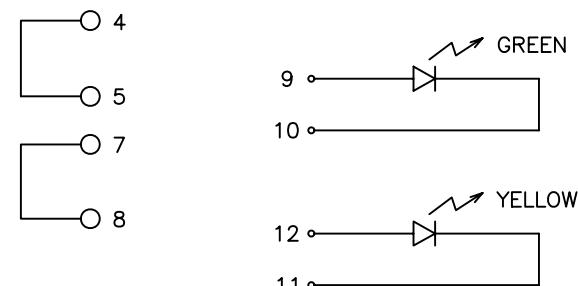
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SIZE	CAGE CODE	DWG. NO.	REV.
	B01961	J00-0086NL	M11
SCALE	NONE	CADD FILE	

M-J00-0086NL-3

SHEET 3 OF 5

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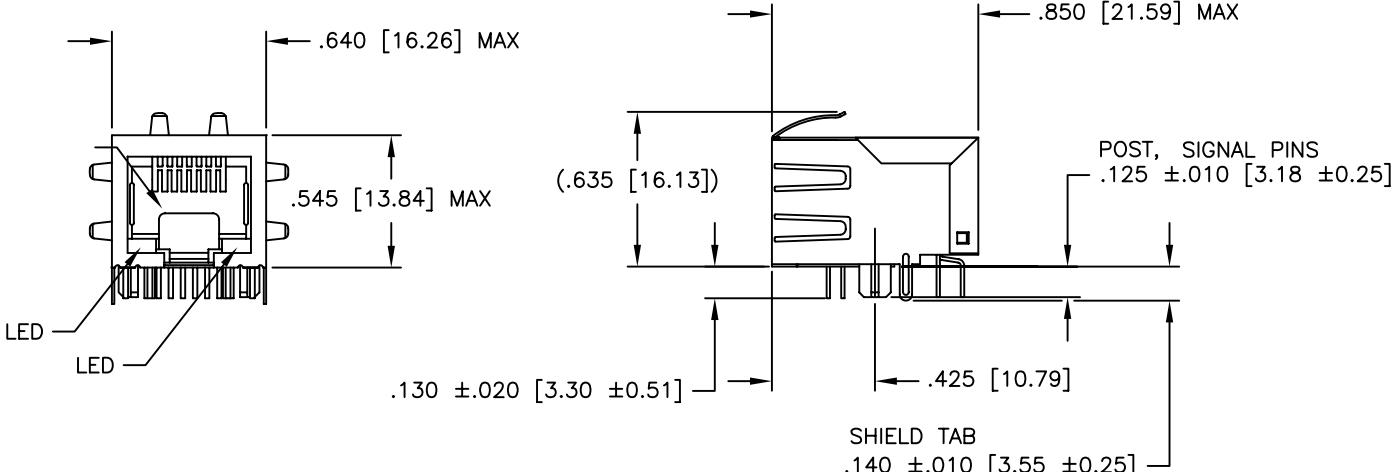
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DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING
TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.
.XXX ±.010 [X.XX ±0.25]

UNLESS OTHERWISE SPECIFIED, ALL
DIMENSIONS ARE IN INCHES
TOLERANCES ARE: DECATS ANGLES
XX ±.01
XXX ±.005

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SIZE CAGE CODE DWG. NO. REV
B01961 J00-0086NL M11
SCALE NONE CADD FILE M-J00-0086NL-5 SHEET 4 OF 5

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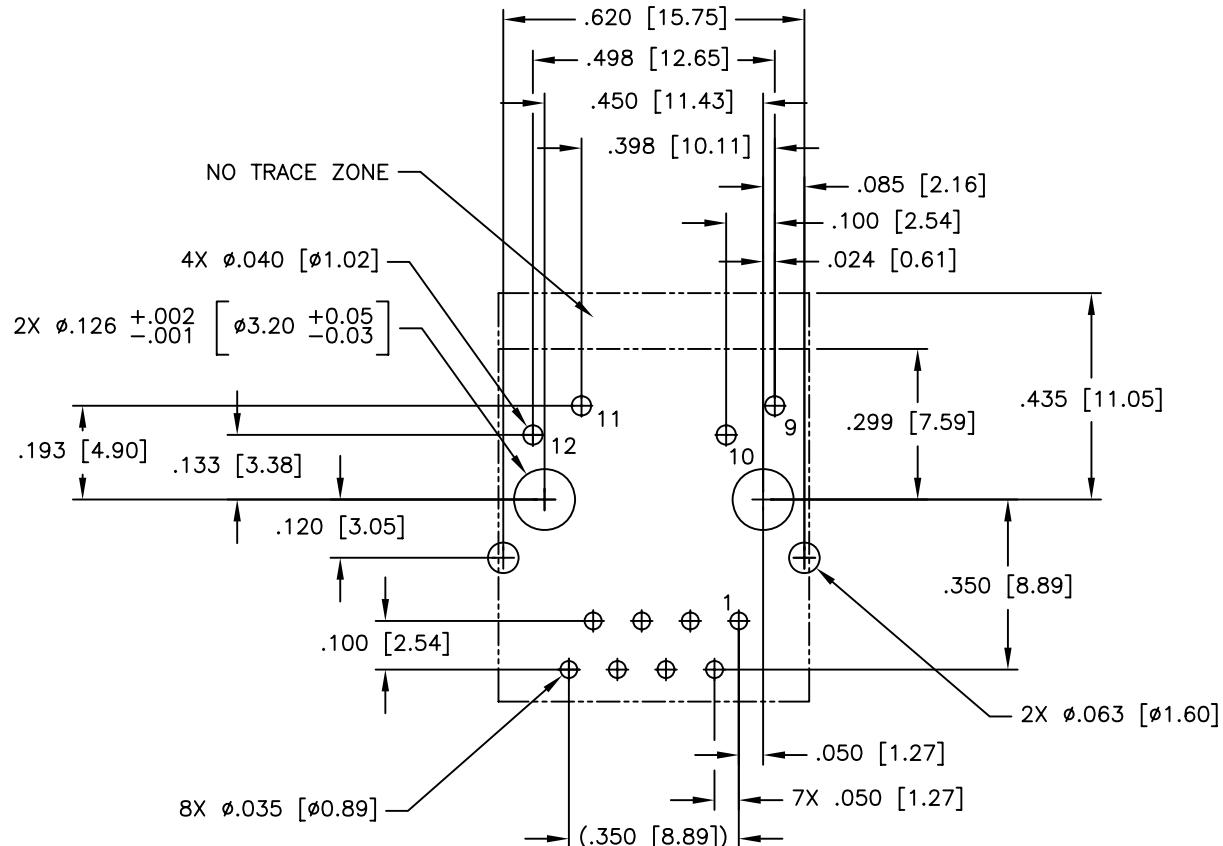
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SUGGESTED PC BOARD LAYOUT VIEWED FROM COMPONENT SIDE
PCB LAYOUT DIMENSIONS TO BE $\pm .002$ UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED, ALL
DIMENSIONS ARE IN INCHES
TOLERANCES ARE: ANGLES $\pm 1^\circ$
DECIMALS $\pm .01$
~~DECIMALS $\pm .005$~~

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SIZE	CAGE CODE	DWG. NO.	J00-0086NL	REV
B 01961				M11
CALE	NONE	CADD FILE	M-100-0086NL-6	SHEET 5 OF 5

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