

JC0-0351NL 4

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

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:

- 2.

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

3. PLASTIC HOUSING: THERMOPLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
4. CONTACT BASE MATERIAL: PHOSPHOR BRONZE.
5. CONTACTS UNDERPLATE: 50 MICROINCHES DUCTILE NICKEL.
6. CONTACTS PLATING: 30 MICRO-INCH HARD GOLD PLATING.
7. SOLDER TAIL PLATING MATERIAL: 100% TIN, MATTE FINISH.
8. METAL SHIELD: NICKEL PLATING ON COPPER ALLOY.
9. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68 SUBPART F.
10. PCB PLATING: EG (TOP PCB)
ENIG (BOTTOM PCB)
11. SOLDERABILITY: CONFORMS TO ANSI/J-STD-002, IPC/EIA J-STD-003A.
12. OPERATING TEMPERATURE: 0°C TO +70°C
13. STORAGE TEMPERATURE: -20°C TO +125°C
14. JEDEC MOISTURE: LEVEL 1.
15. REVISION: MX1,MX2, ARE PRELIMINARY.

PULSE CONFIDENTIAL AND PROPRIETARY			
		PRODUCT SPECIFICATION	
TITLE CONN,RJ45,2X2,1GD,1:1,TY			
SIZE B101961	CAGE CODE	DWG. NO. JC0-0351NL	REV. M12
SCALE NONE	CADD FILE	M-JC0-0351NL-1	SHEET 1 OF 5

JC0-0351NL

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ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHERWISE SPECIFIED
(FOR REFERENCE ONLY. USED FOR CUSTOMER INFORMATION.)

PARAMETER	SPECIFICATIONS	
OPERATING TEMP	0°C - 70°C	
URNS RATIO	1.00 ± 2%	
POLARITY	PER SCHEMATIC	
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%)	.1-40 MHz	40-100 MHz
	-18 dB MIN	-12+20*LOG ₁₀ (f/80 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	-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
INPUT - OUTPUT ISOLATION	2250 VDC MIN @ 60 SECONDS	

NOTE: f IS FREQUENCY IN MHz.

EMMITED COLOR	GREEN	YELLOW
WAVELENGTH (nm)	570 nm	587 nm
BRIGHNESS (mCD)	8 TYP. AT 20 mA	6.5 TYP. AT 20 mA
VIEWING ANGLE	100°	100°
POWER DISSIPATION (Pd)	80 mW MAX	80 mW MAX
FORWARD VOLTAGE (Vf)	2.0 TO 2.6 V (UPPER PORT)	2.1 TO 2.6 V (UPPER PORT)
	2.2 TO 2.8 V (LOWER PORT)	2.15 TO 2.8 V (LOWER PORT)
REVERSE VOLTAGE (Vr)	5.0 V MAX	5.0 V MAX

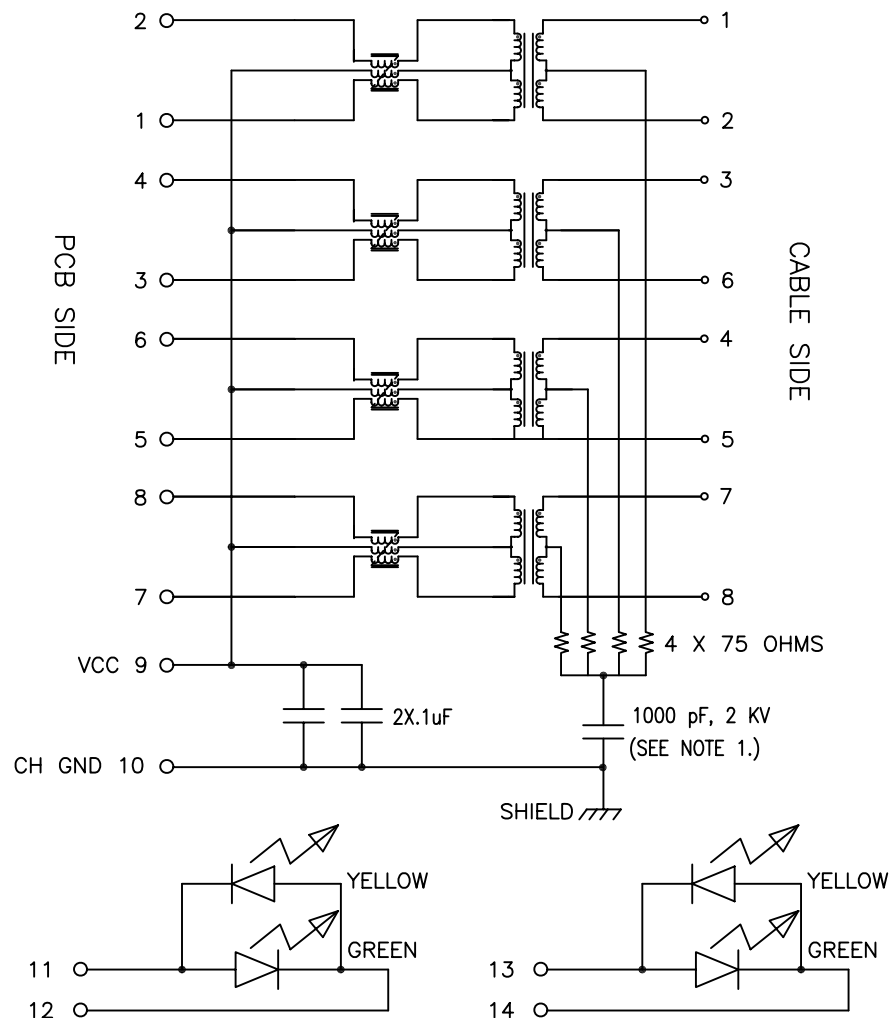
NOTE: PER VENDOR'S SPECIFICATIONS

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SIZE	CAGE CODE	DWG. NO.	REV.
B	01961	JC0-0351NL	M12
SCALE	NONE	CADD FILE	SHEET
		M-JC0-0351NL-2	2 OF 5

PCB SIDE

CABLE SIDE



SCHEMATIC
EACH PORT (4 PLACES)

NOTE 1: HIGH-VOLTAGE CAPACITOR IS COMMON FOR UPPER AND LOWER PORTS.

JC0-0351NL

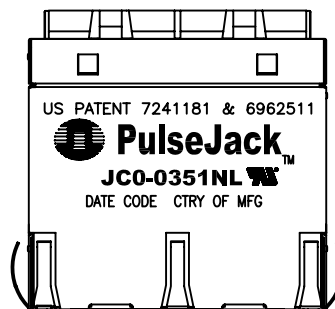
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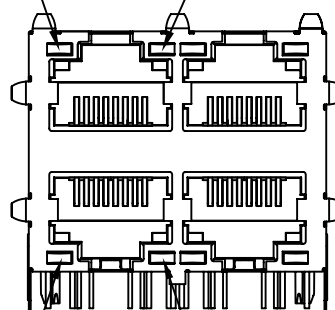
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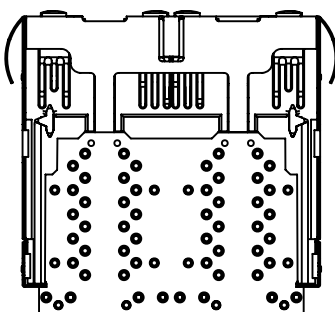
GREEN/YELLOW

GREEN/YELLOW



GREEN/YELLOW

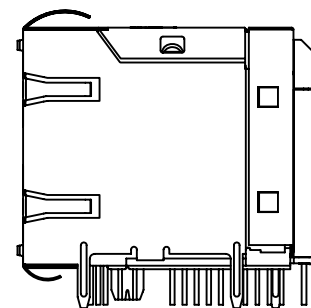
GREEN/YELLOW



FINAL OUTLINE

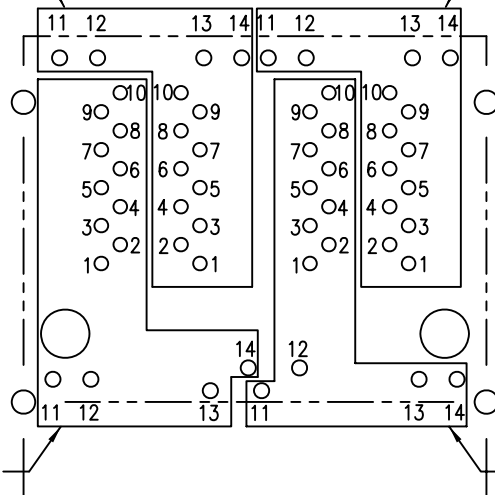
UPPER

LOWER



UPPER PORT
PINS

UPPER PORT
PINS



FOOTPRINT
(VIEWED FROM TOP SIDE)

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SIZE	CAGE CODE	DWG. NO.	REV.
B	01961	JC0-0351NL	M12
SCALE	CADD FILE	SHEET	3 OF 5
NONE	M-JC0-0351NL-3		

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JCO-0351NL

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C

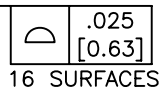
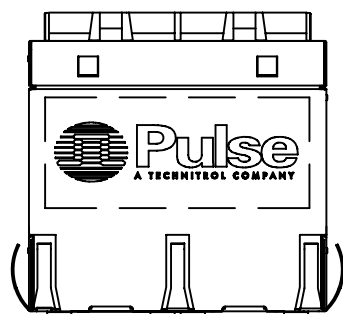
C

B

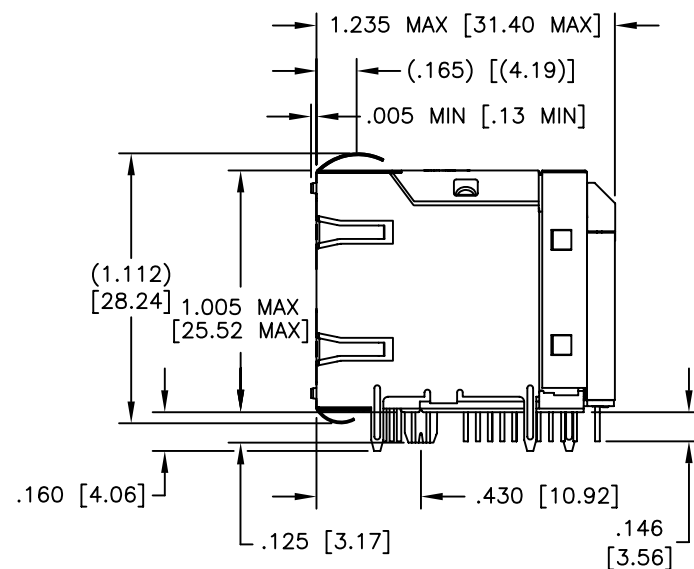
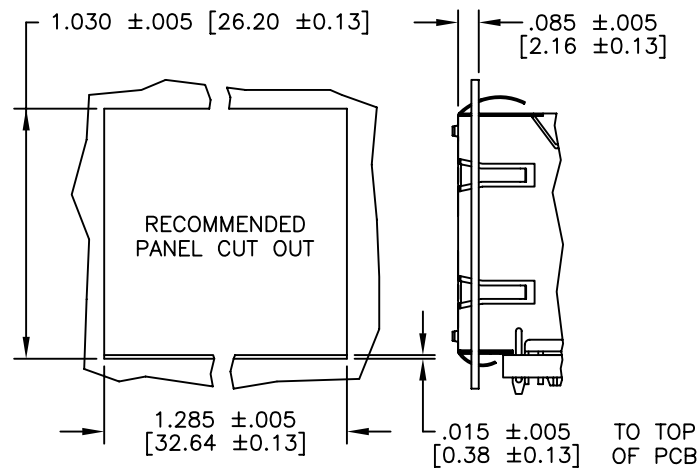
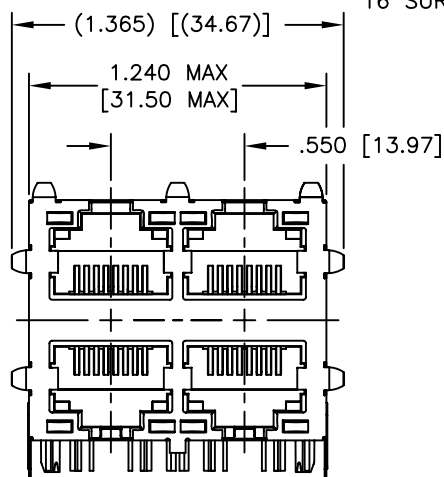
B

A

A



16 SURFACES



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

DO NOT SCALE DRAWING

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SIZE	CAGE CODE	DWG. NO.	REV
B01961		JCO-0351NL	M12
SCALE	CADD FILE	M-JCO-0351NL-4	SHEET
NONE			4 OF 5

PS-2416.121-A

120CT2004

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JCO-0351NL

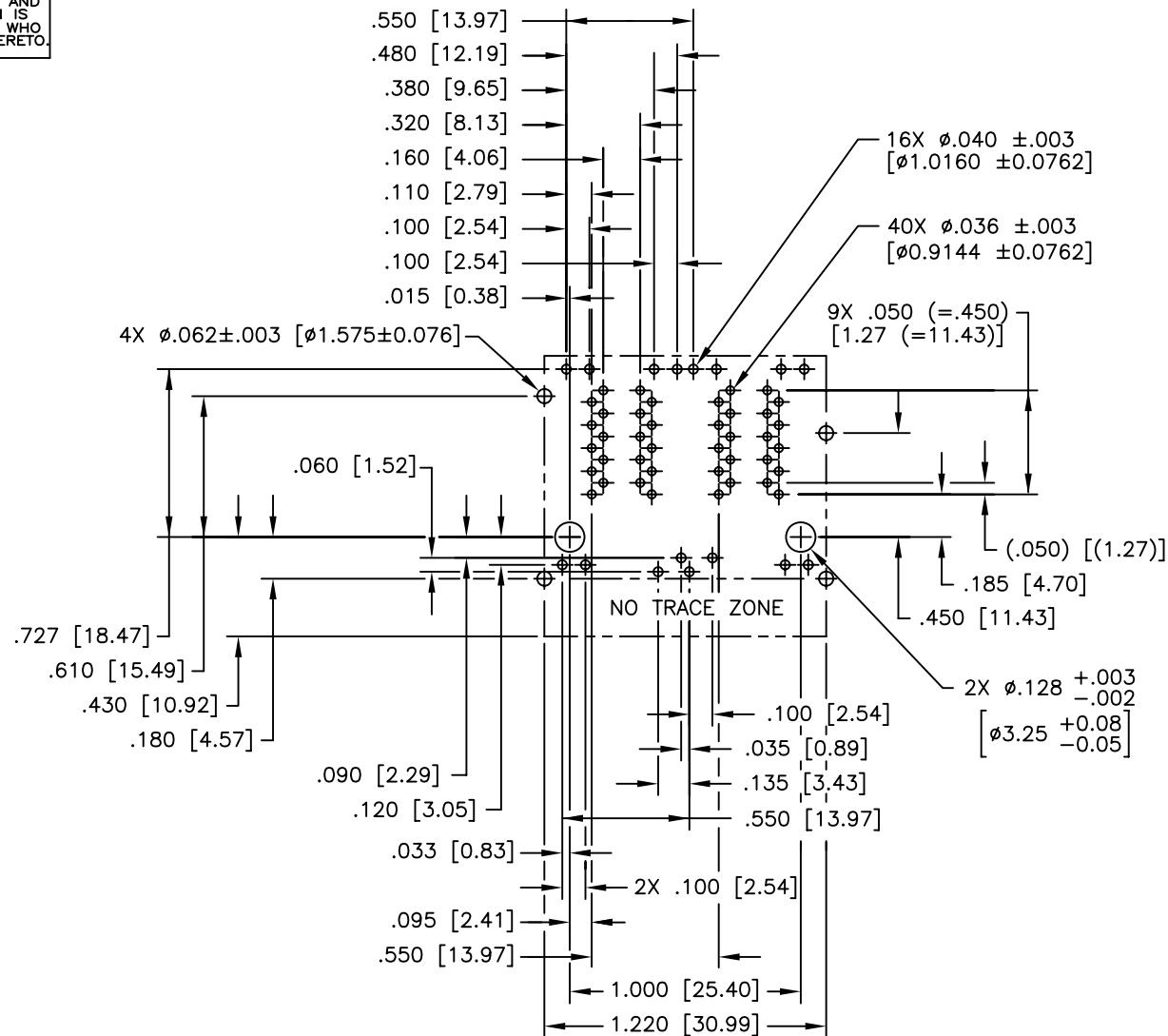
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SUGGESTED PC BOARD LAYOUT VIEWED FROM COMPONENT SIDE
UNLESS OTHERWISE SPECIFIED DIMENSIONAL TOLERANCE IS ±.002

UNLESS OTHERWISE SPECIFIED, ALL
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:

DECIMALS
-XX ±.01
-XXX ±.005

DO NOT SCALE DRAWING

PULSE CONFIDENTIAL AND PROPRIETARY

SIZE	CAGE CODE	DWG. NO.	REV
B	01961	JCO-0351NL	M12
SCALE	CADD FILE	SHEET	5 OF 5
NONE	M-JCO-0351NL-5		

120CT2004

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