

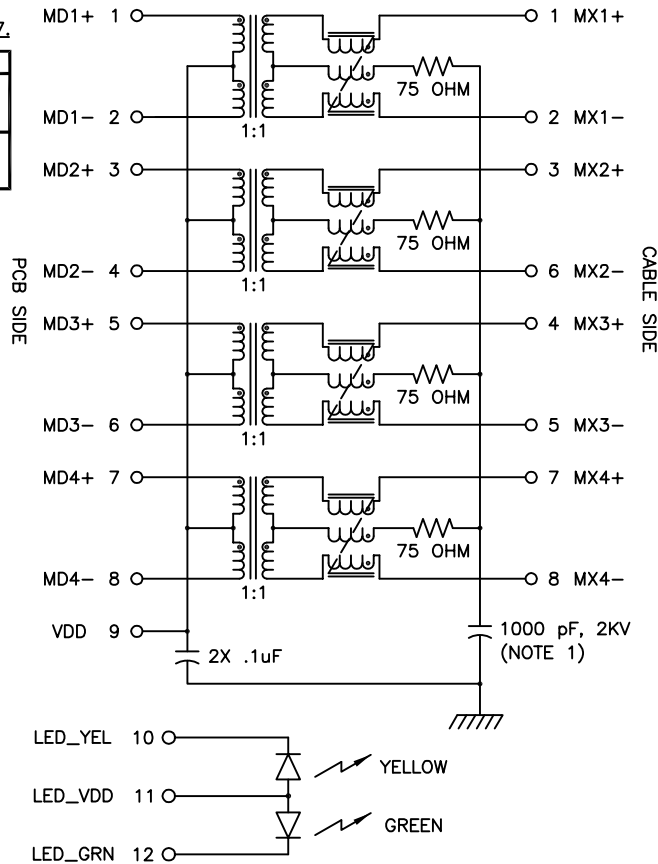
NOTES: UNLESS OTHERWISE SPECIFIED

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.

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: 50 MICROINCHES GOLD PLATING.
7. SOLDER TAIL PLATING MATERIAL: 200-500 MICROINCHES 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: ENIG.
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. DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.
.XX= ±.02 [±0.5]
.XXX= ±0.10 [±0.25]



SCHEMATIC (EACH PORT)

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

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

PARAMETER	SPECIFICATIONS		
OPERATING TEMPERATURE	0°C – 70°C		
TURNS RATIO	1.00 ± 2%		
POLARITY	PER SCHEMATIC		
INSERTION LOSS	100 KHz	1–100 MHz	125 MHz
	–1.2 dB MAX	–0.2–0.002*f ^{1.4} dB MAX	–3.0 dB MAX
RETURN LOSS (Z OUT=100 OHM ±15%)	.1–40 MHz	40–100 MHz	
	–16 dB MIN	–10+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	–52+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 MINIMUM FOR 60 SECONDS		

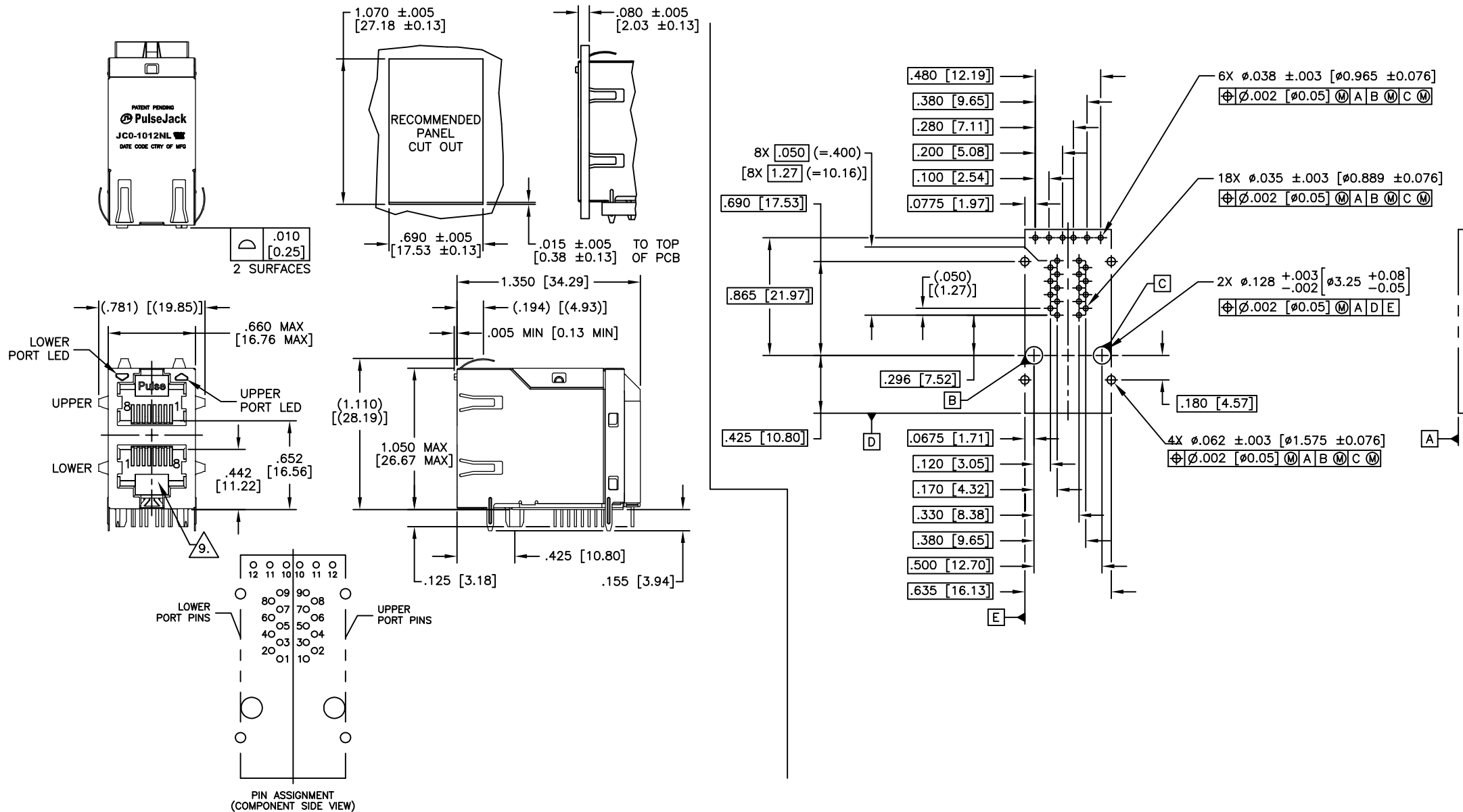
NOTE: f IS FREQUENCY IN MHZ.

LED SPECIFICATIONS

EMMITTED COLOR	GREEN	ORANGE
WAVELENGTH (nm)	570 nm	607 nm
BRIGHTNESS (mCD)	8.5 TYP. @ 20mA	6 TYP. @ 20mA
VIEWING ANGLE	100°	100°
POWER DISSIPATION (Pd)	85 mW MAX	85 mW MAX
FORWARD VOLTAGE (Vf)	2.2 TO 2.8 V	2.15 TO 2.8 V
REVERSE VOLTAGE (Vr)	5.0 V MAX	5.0 V MAX

© Copyright, 2012. Pulse Electronics, Inc. All rights reserved. Drawing specifications subject to change without notice. (09/13/12)

PULSE CONFIDENTIAL & PROPRIETARY	PRODUCT DESCRIPTION	PS DRAWING	SHEET:	DWG. NO./ PART NO.	REV.
	CONN,RJ45,2X1,1GD,1:1,TY	PS-2316.001-A	1	JC0-1012NL	M12



© Copyright, 2012. Pulse Electronics, Inc. All rights reserved. Drawing specifications subject to change without notice. (09/13/12)

PULSE CONFIDENTIAL
&
PROPRIETARY

PRODUCT DESCRIPTION
CONN,RJ45,2X1,1GD,1:1,TY

PS DRAWING
PS-2316.001-A

SHEET:
2

DWG. NO./ PART NO.
JCO-1012NL

REV.
M12