



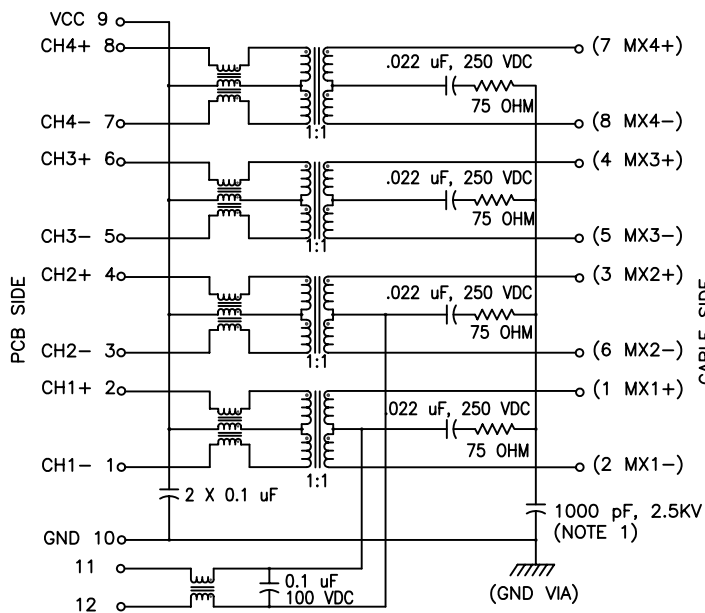
NOTES: UNLESS OTHERWISE SPECIFIED

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

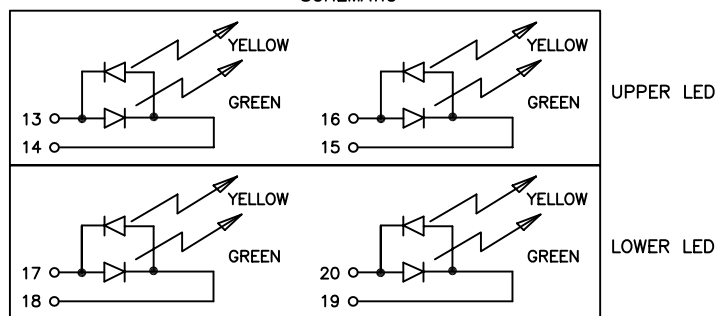
<b>WARNING:</b> 	THIS COMPONENT IS RECOGNIZED BY ONE OR MORE SAFETY AGENCIES SUCH AS UL, VDE, CSA AND/OR TUV. ALL ENGINEERING CHANGES MUST HAVE PRIOR APPROVAL BY THE DESIGN CENTER PRODUCT SAFETY DEPARTMENT FOR SAFETY AGENCY COMPLIANCE.	ECN APPROVAL:
		QA APPROVAL:
		DATE:

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 94V-0 OR BETTER.
4. CONTACT BASE MATERIAL: PHOSPHOR BRONZE.
5. CONTACTS UNDERPLATE: 30-50 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: STAINLESS STEEL. (FRONT SHIELD)  
NICKEL PLATING ON COPPER ALLOY. (REAR SHIELD)
9. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68 SUBPART.
10. PCB PLATING: HASL (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.
16. DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.  
.XX= ±.02 [±0.5]  
.XXX= ±.010 [±0.25]



SCHEMATIC



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 TEMP		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 <sup>1.4</sup> 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 <sub>10</sub> (f/80 MHz) dB MIN		
INDUCTANCE (OCL) (MEDIA SIDE, 0°C–70°C)	CH1	350 uH MIN	(MEASURED AT 100 KHz, 100 mVRMS AND WITH 24 mA DC BIAS	
	CH2			
	CH3	350 uH MIN	(MEASURED AT 100 KHz, 100 mVRMS AND WITH 8 mA DC BIAS	
	CH4			
CROSSTALK, ADJACENT CHANNELS	1 MHz	10–100 MHz		
	–50 dB MIN	–52+22*LOG <sub>10</sub> (f/10) dB MIN		
COMMON MODE REJECTION RATIO	2 MHz	30–200 MHz		
	–50 dB MIN	–15+20*LOG <sub>10</sub> (f/200) dB MIN		
DC RESISTANCE, 1/2 WINDING	.45 OHMS MAX			
DC RESISTANCE IMBALANCE	±.065 OHMS MAX (CENTER TAP SYMMETRY)			
DC CURRENT CARRYING CAPABILITY – POE PINS	720 mA MAX @ 57V			
INPUT – OUTPUT ISOLATION	2250 VDC MINIMUM FOR 60 SECONDS			

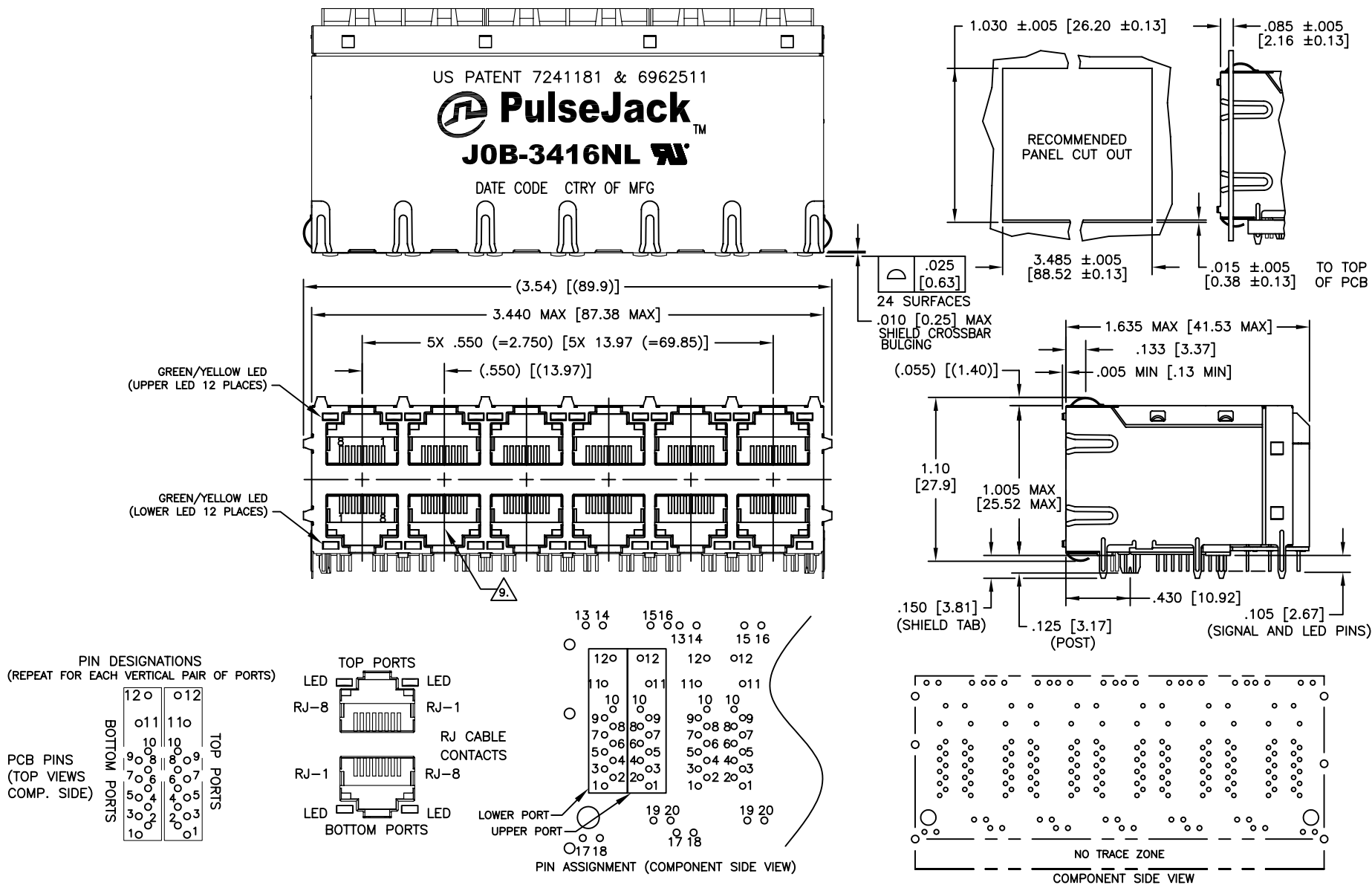
NOTE: f IS FREQUENCY IN MHZ.

EMMITED COLOR	GREEN	YELLOW
WAVELENGTH (nm)	570 nm	590 nm
BRIGHTNESS (mCD)	8.5 TYP. @ 20mA	6 TYP. @ 20 mA
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

NOTE: PER VENDOR'S SPECIFICATIONS

© Copyright, 2012. Pulse Electronics Corp. All rights reserved. Drawing specifications subject to change without notice. (03/28/12)

PULSE CONFIDENTIAL & PROPRIETARY	PRODUCT DESCRIPTION	PS DRAWING	SHEET:	DWG. NO./ PART NO.	REV.
	CONN,RJ45,2X6,1GPP,1:1,TY	PS-2317.501-A	1	JOB-3416NL	MP1



© Copyright, 2012. Pulse Electronics Corp. All rights reserved. Drawing specifications subject to change without notice. (03/28/12)

PULSE CONFIDENTIAL  
&  
PROPRIETARY

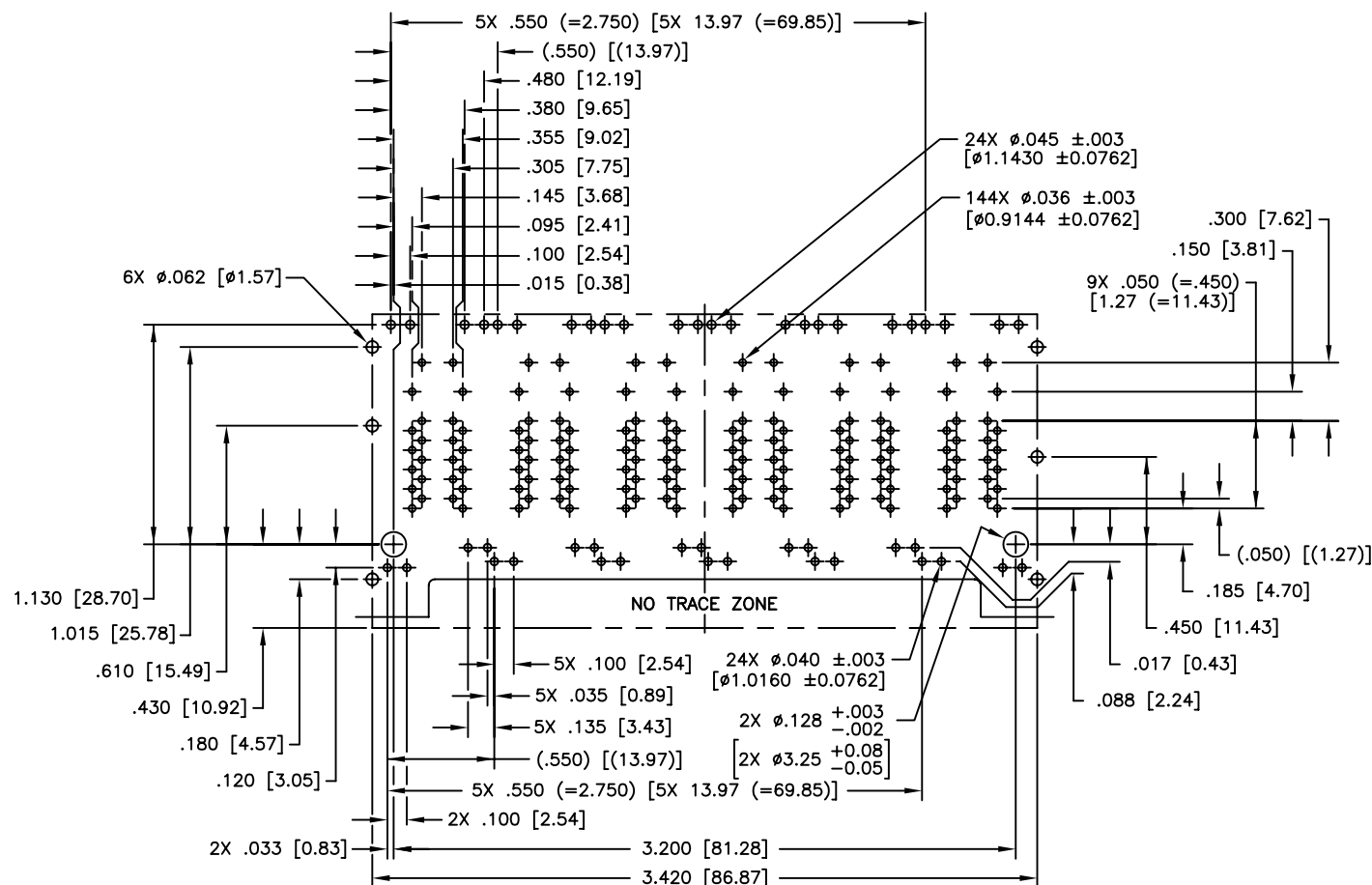
PRODUCT DESCRIPTION  
CONN,RJ45,2X6,1GPP,1:1,TY

PS DRAWING  
PS-2317.501-A

SHEET:  
2

DWG. NO./ PART NO.  
JOB-3416NL

REV.  
MP1



SUGGESTED PC BOARD LAYOUT VIEWED FROM COMPONENT SIDE  
 UNLESS OTHERWISE SPECIFIED DIMENSIONAL TOLERANCE IS  $\pm 0.02$

© Copyright, 2012. Pulse Electronics Corp. All rights reserved. Drawing specifications subject to change without notice. (03/28/12)

PULSE CONFIDENTIAL & PROPRIETARY	PRODUCT DESCRIPTION	PS DRAWING	SHEET:	DWG. NO./ PART NO.	REV.
	CONN,RJ45,2X6,1GPP,1:1,TY	PS-2317.501-A	3	JOB-3416NL	MP1

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Pulse:

J0B-3416NL