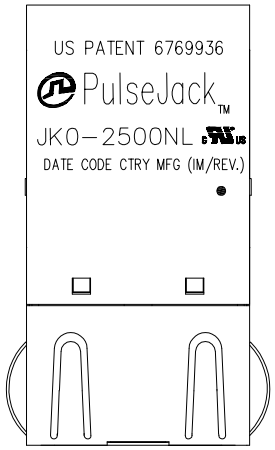
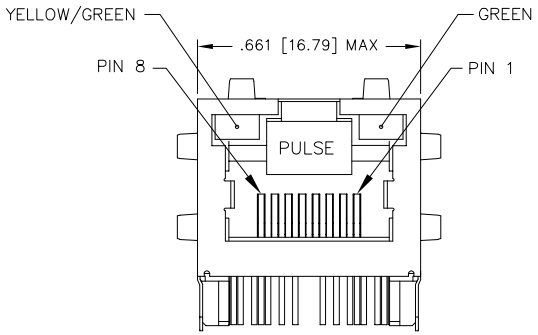
RoHS COMPLIANT

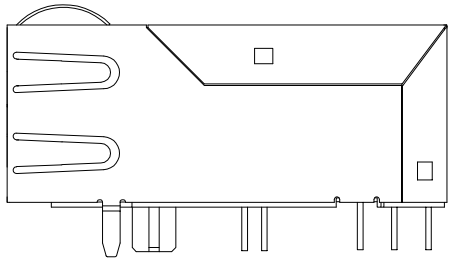
Pulse Electronics
www.pulseelectronics.com

NOTES:

1. ROHS COMPLIANT
2. PLASTIC HOUSING: THERMOPLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. CONTACTS PLATING: 30 MICRO-INCH GOLD PLATING.
4. CONTACTS BASE MATERIAL: PHOSPHOR BRONZE
5. UNDER PLATING: 30-50u INCHES 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 PART 68 SUBPART.
9. PCB PLATING: HASL
10. STORAGE TEMPERATURE: -20°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







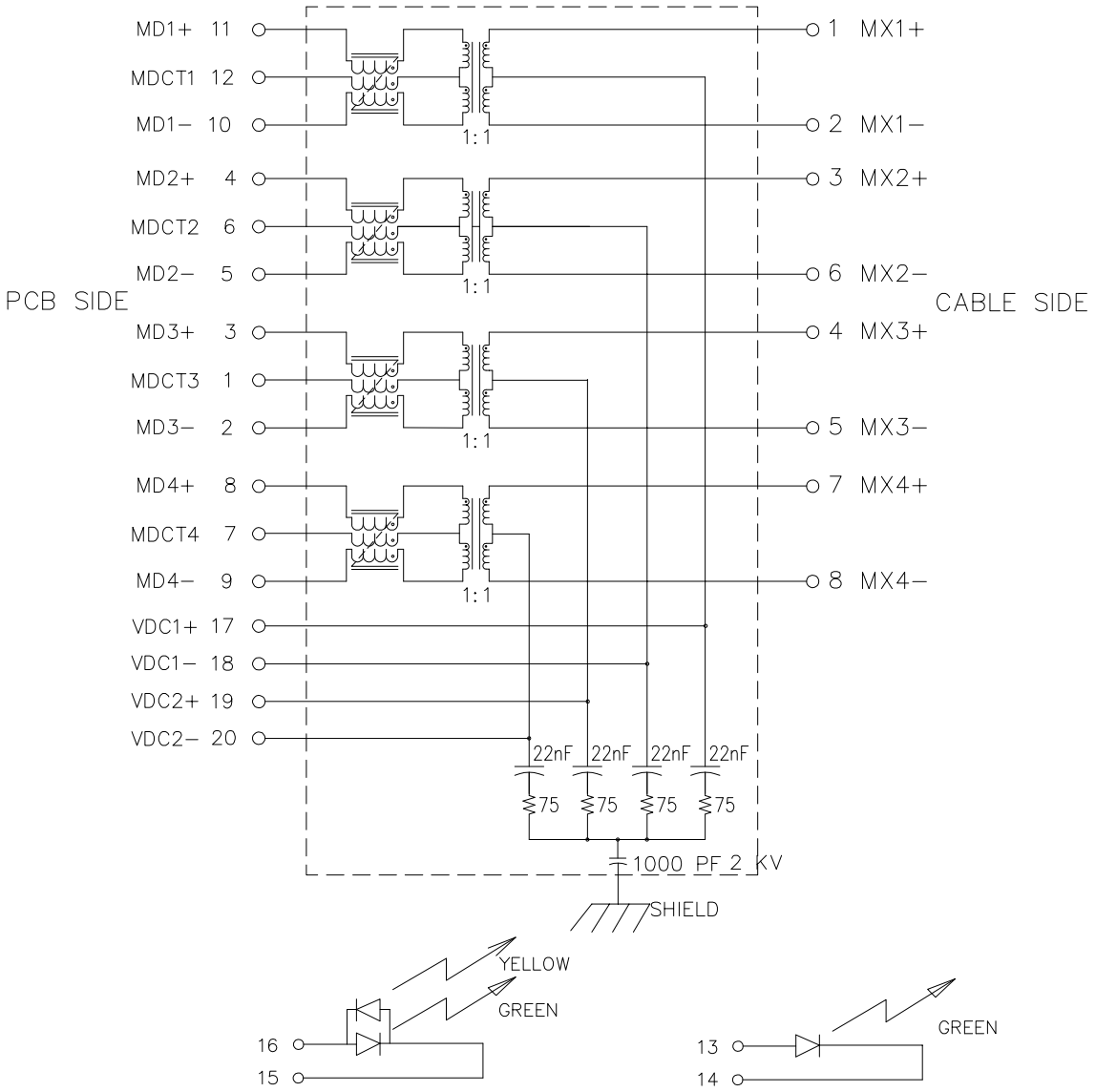
FINAL OUTLINE

@ Copyright, 2016. Pulse Electronics Corp. All rights reserved. Pulse confidential & proprietary. (08/23/16)

PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
CONN,RJ45,1X1,2.5GPP,1:1,TY	JK0-2500NL-10	PS-2390.001-C	1 OF 5	JK0-2500NL	E

E-MAIL:PRODINFONETWORK@PULSEELECTRONICS.COM(US), ASIA@PULSEELECTRONICS.COM(Asia) PHONE: USA: 858 674 8100, GERMANY: 49 7032 78060, SINGAPORE: 65 6287 8998, SHANGHAI: 86 21 62787060, TAIWAN: 886 3 4356768

Downloaded from Arrow.com.



SCHEMATIC

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

PARAMETER	SPECIFICATIONS	
OPERATING TEMPERATURE	0°C TO 70°C	
TURNS RATIO	1.00 ± 2%	
POLARITY	PER SCHEMATIC	
INSERTION LOSS (SDD21&SDD12)	1–50 MHz	50–125 MHz
	−0.5 dB MAX	−1.0 dB MAX
PHY–SIDE RETURN LOSS (SDD11 – Zref = 100 OHMS ± 1%)	1 MHz–40 MHz	40 MHz–200 MHz
	−20 dB MIN	$-20+15*LOG_{10}(f/40)$ dB MIN
LINE–SIDE RETURN LOSS (SDD22 – Zref = 100 OHMS ± 1%)	1 MHz–40 MHz	40 MHz–200 MHz
	−20 dB MIN	$-20+15*LOG_{10}(f/40)$ dB MIN
INDUCTANCE (OCL)	150 uH MIN WITH 15 mA DC BIAS	
CROSSTALK, ADJACENT CHANNELS (SDD21 – ADJ.)	1–125 MHz	
	−30 dB MIN	
COMMON MODE REJECTION RATIO (SCC21)	30 MHz–200 MHz	
	−30 dB MIN	
COMM. TO DIFF. REJECTION RATIO (SDC12)	10 MHz–125 MHz	
	−45+f/35 dB MIN	
DC CURRENT CARRING CAPABILITY	1000 mA MAX AT 70°C	
INPUT – OUTPUT ISOLATION	2250 VDC FOR 60 SECONDS	

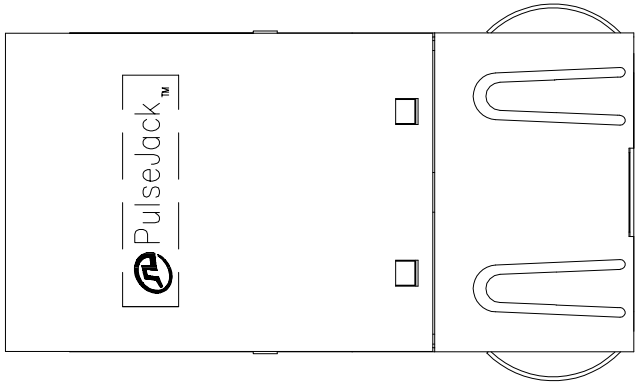
NOTE: f IS FREQUENCY IN MHz.

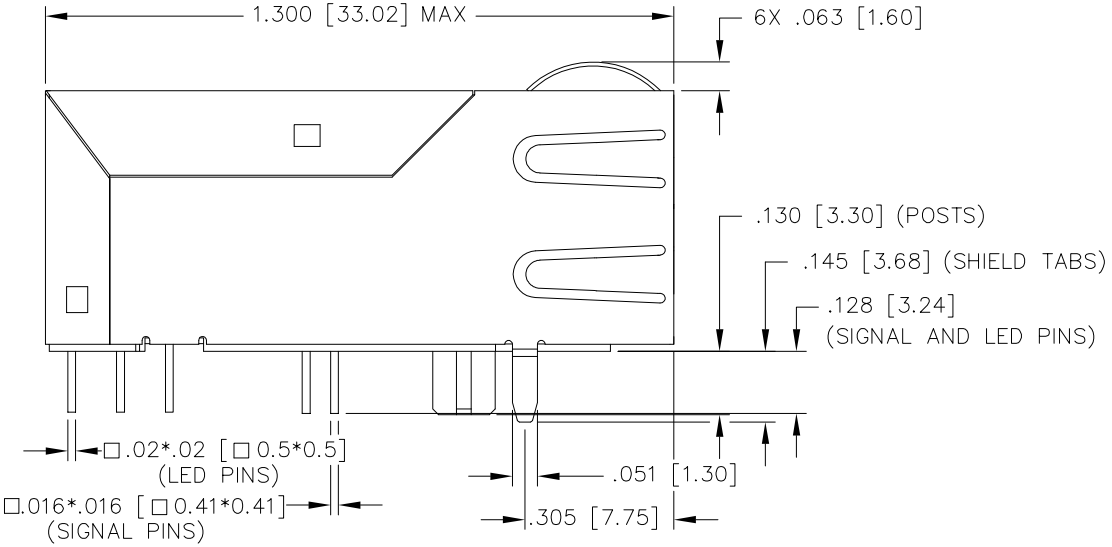
EMMITTED COLOR	GREEN	YELLOW
WAVELENGTH (nm)	568 nM	585 nM
BRIGTHNESS (mCD)	8.5 TYP. @ 20mA	6.0 TYP. @ 20mA
VIEWING ANGLE	85°–100°	85°–100°
POWER DISSIPATION (Pd)	100 mW MAX	100 mW MAX
DC FORWARD CURRENT	150 mA MAX	150 mA MAX
FORWARD VOLTAGE (Vf)	2.2 TO 2.6 VOLTS	2.1 TO 2.6 VOLTS
REVERSE VOLTAGE (Vr)	5.0 V MAX	5.0 V MAX

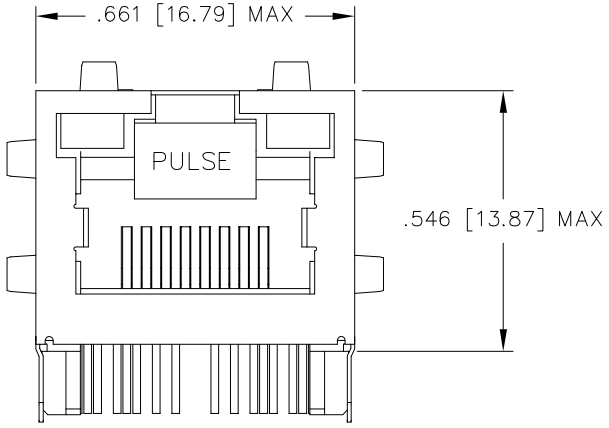
NOTE: PER VENDOR'S SPECIFICATIONS

@ Copyright, 2016. Pulse Electronics Corp. All rights reserved. Pulse confidential & proprietary. (08/23/16)

Downloaded from Arrow.com.



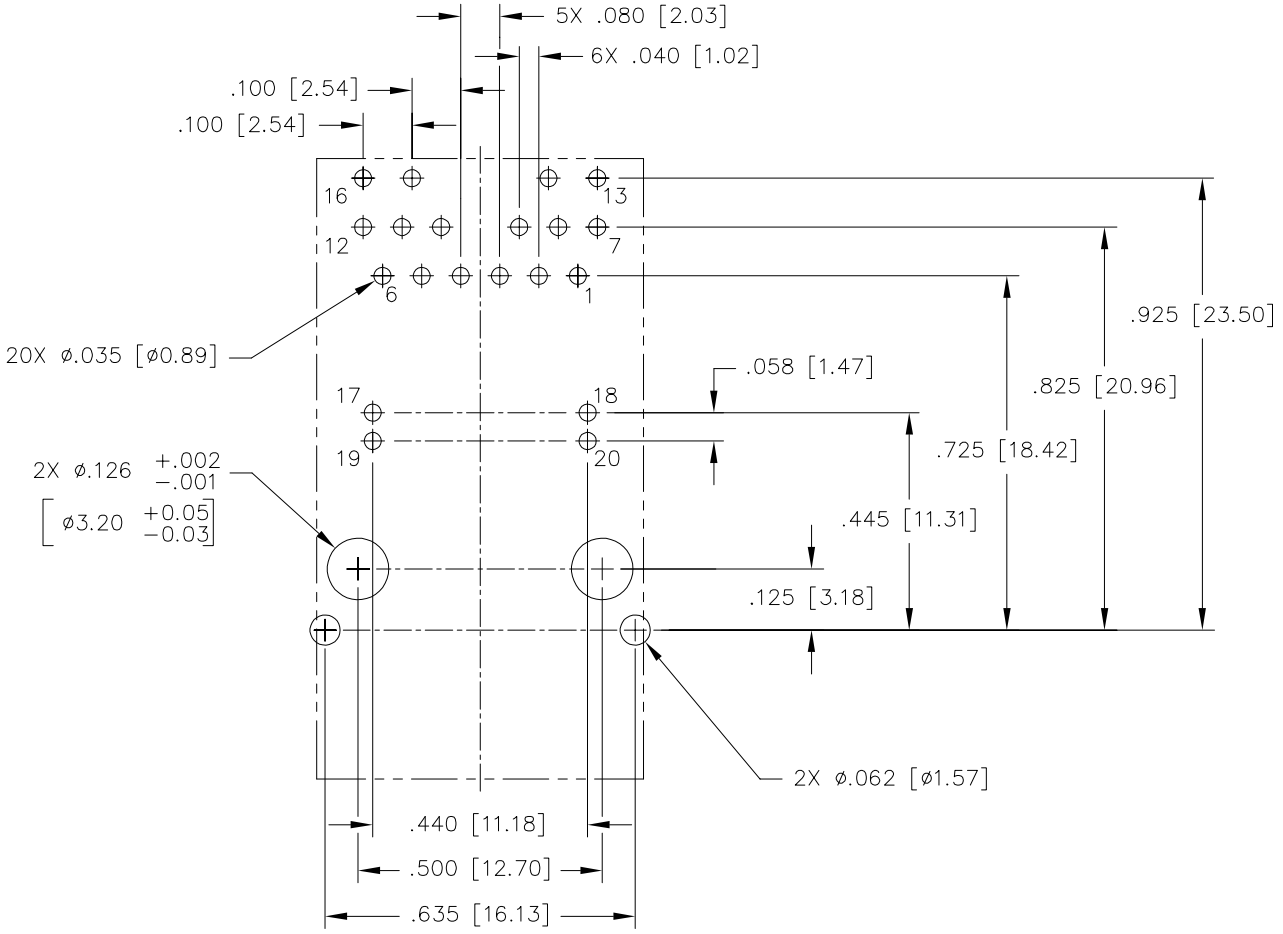




DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING
TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.
.XX= ±.02 [±0.50]
.XXX= ±.010 [±0.25]

© Copyright, 2016. Pulse Electronics Corp. All rights reserved. Pulse confidential & proprietary. (08/23/16)

Downloaded from Arrow.com.



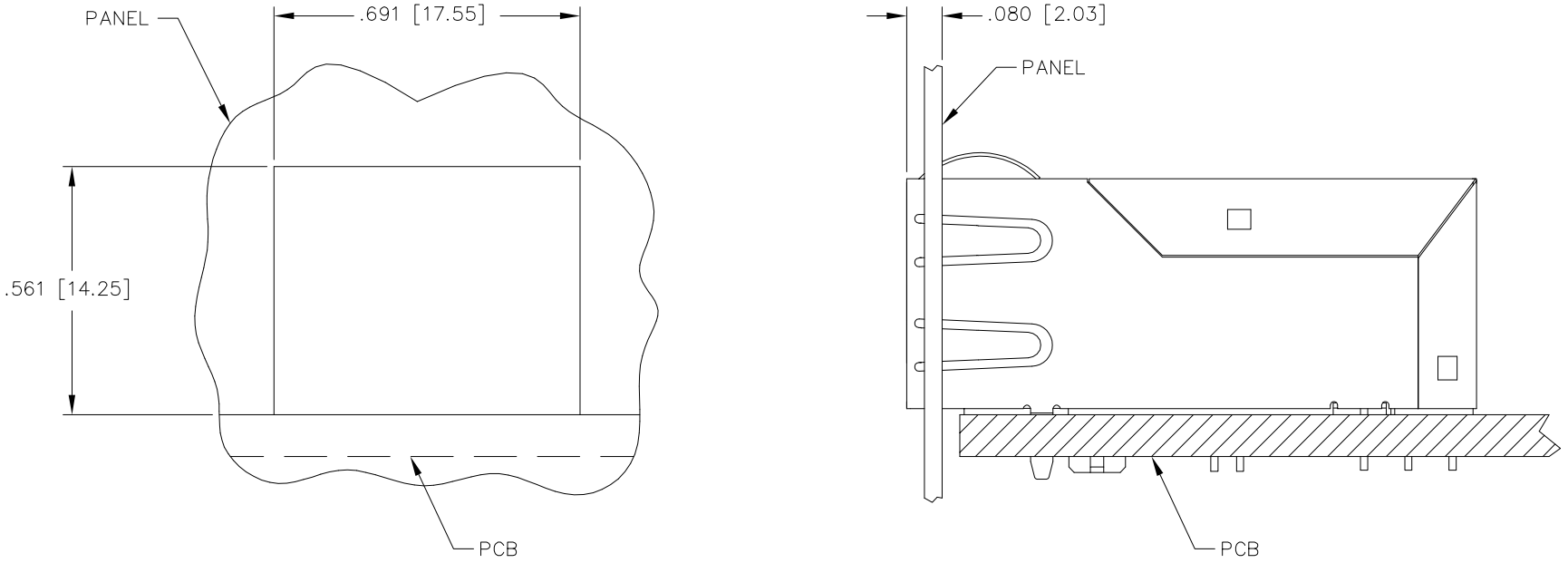
FRONT OF CONNECTOR

SUGGESTED PCB LAYOUT
(COMPONENT SIDE SHOWN)

DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.
.XXX= ±.003 [±0.08]

@ Copyright, 2016. Pulse Electronics Corp. All rights reserved. Pulse confidential & proprietary. (08/23/16)

Downloaded from Arrow.com.



SUGGESTED PANEL CUTOUT

DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING
TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.
.XX= ±.02 [±0.50]
.XXX= ±.010 [±0.25]

@ Copyright, 2016. Pulse Electronics Corp. All rights reserved. Pulse confidential & proprietary. (08/23/16)

PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
CONN,RJ45,1X1,2.5GPP,1:1,TY	JK0-2500NL-10	PS-2390.001-C	5 OF 5	JK0-2500NL	E

E-MAIL:PRODINFONETWORK@PULSEELECTRONICS.COM(US), ASIA@PULSEELECTRONICS.COM(Asia) PHONE: USA: 858 674 8100, GERMANY: 49 7032 78060, SINGAPORE: 65 6287 8998, SHANGHAI: 86 21 62787060, TAIWAN: 886 3 4356768

Downloaded from Arrow.com.