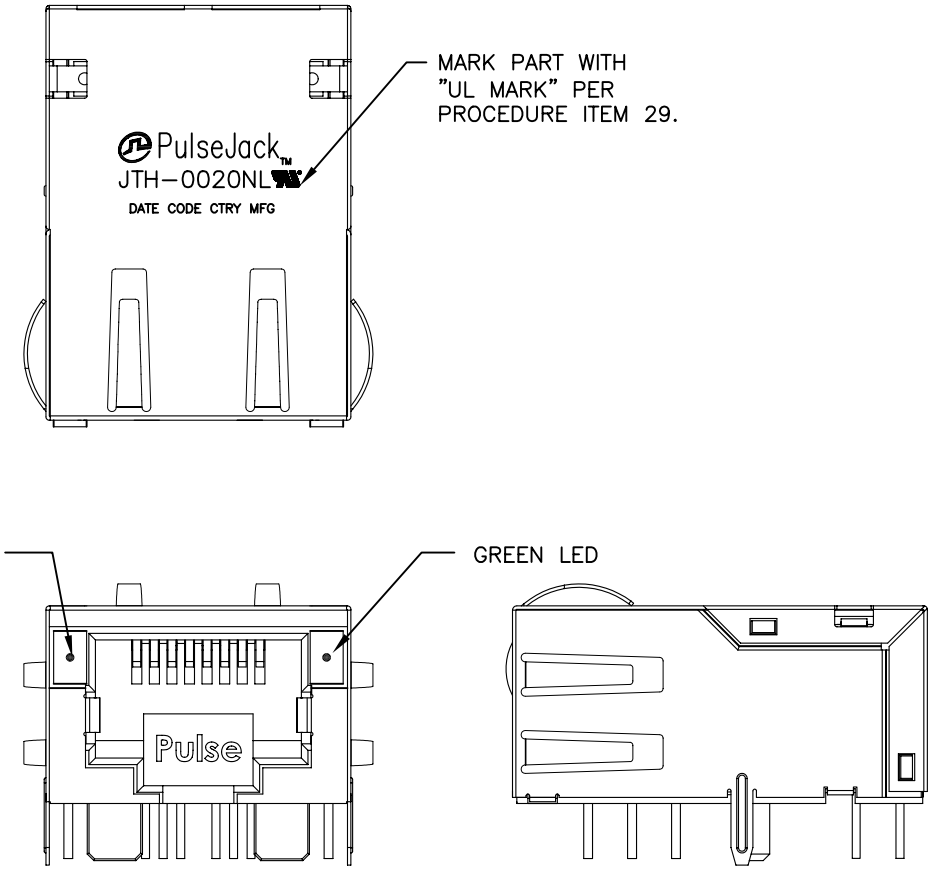
RoHS COMPLIANT

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NOTES:

1. ROHS COMPLIANT
2. PLASTIC HOUSING: THERMOPLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. CONTACTS PLATING: 50 MICROINCHES 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: EG
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

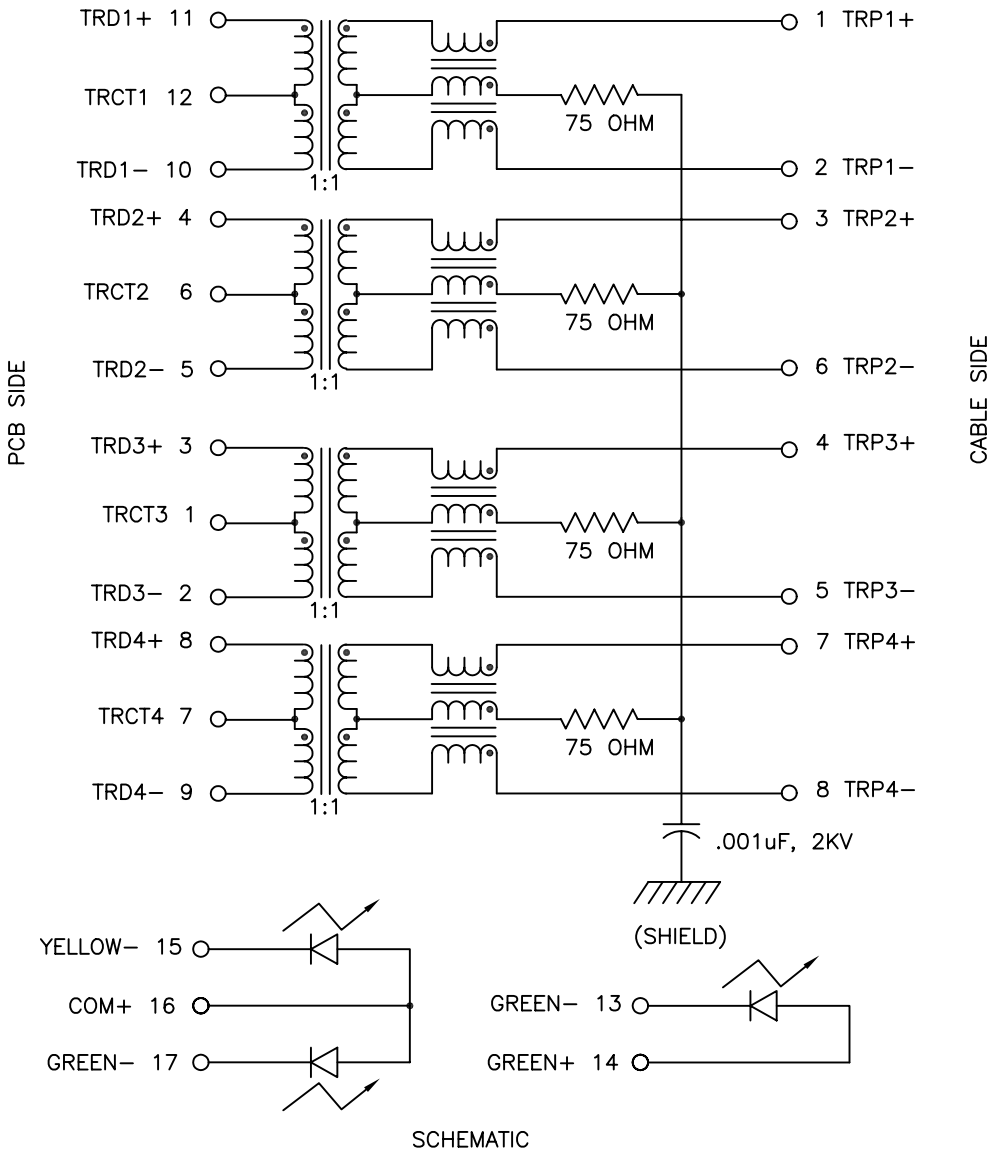
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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
CONN,RJ45,1X1,10G,1:1,TD	JTH-0020NL-14	PS-2484.007-D	1 OF 4	JTH-0020NL	A

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

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SCHEMATIC

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

PARAMETER	SPECIFICATIONS				
INSERTION LOSS	100 KHz	1−400 MHz			
	−3.0 dB MAX	−2.0 dB MAX (−1.4 dB TYP)			
RETURN LOSS (Z OUT = 100 OHM ± 1%)	1−100 MHz	200 MHz	300 MHz	400 MHz	500 MHz
	−22 dB MIN	−16.5 dB MIN	−13.3 dB MIN	−11 dB MIN	−9.2 dB MIN
INDUCTANCE (OCL)	120 uH MIN @ 100 kHz, 100 mV				
CROSSTALK, ADJACENT CHANNELS	1−100 MHz	100−500 MHz			
	−28 dB MIN	−20 dB MIN			
COMMON MODE REJECTION RATIO	1−100 MHz	100−300 MHz	300−500 MHz		
	−35 dB MIN	−30 dB MIN	−25 dB MIN		
COMMON TO DIFFERENTIAL MODE REJECTION (CDMR)	1−250 MHz	250−500 MHz			
	−30 dB MIN	−22 dB MIN			
INPUT − OUTPUT ISOLATION	2250 VDC MIN @ 60 SECONDS				

NOTE: f IS FREQUENCY IN MHz.

EMITTED COLOR	GREEN	YELLOW	GREEN
WAVE LENGTH (nM)	570	588	570
POWER DISSIPATION (Pd)	85 mW MAX	100 mW MAX	85 mW MAX
DC FORWARD CURRENT	25 mA MAX	30 mA MAX	25 mA MAX
FORWARD VOLTAGE (VF) @ 20mA	2.2 V TYP	2.1 V TYP	2.2 V TYP

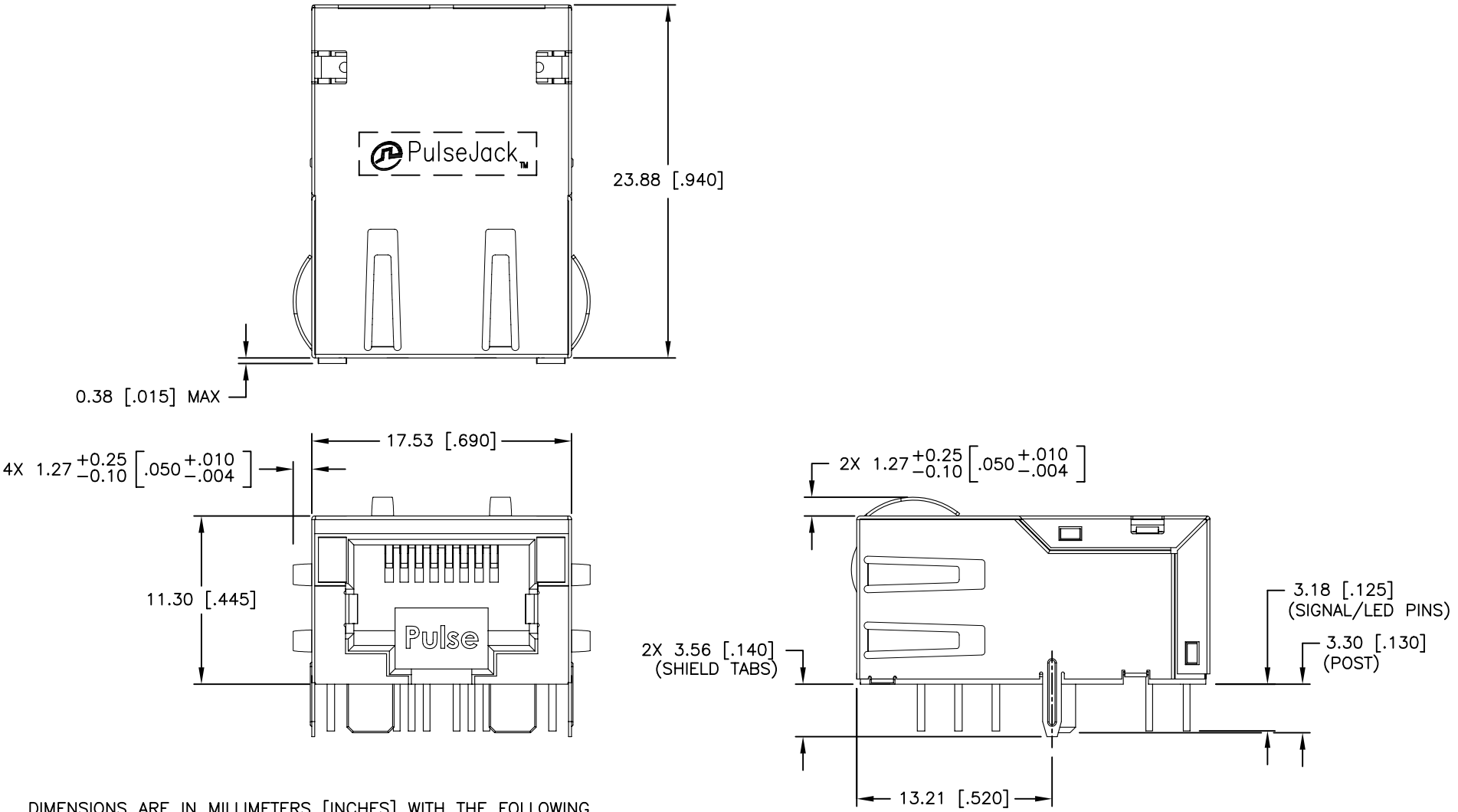
NOTE: PER VENDOR'S SPECIFICATION — BICOLOR

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

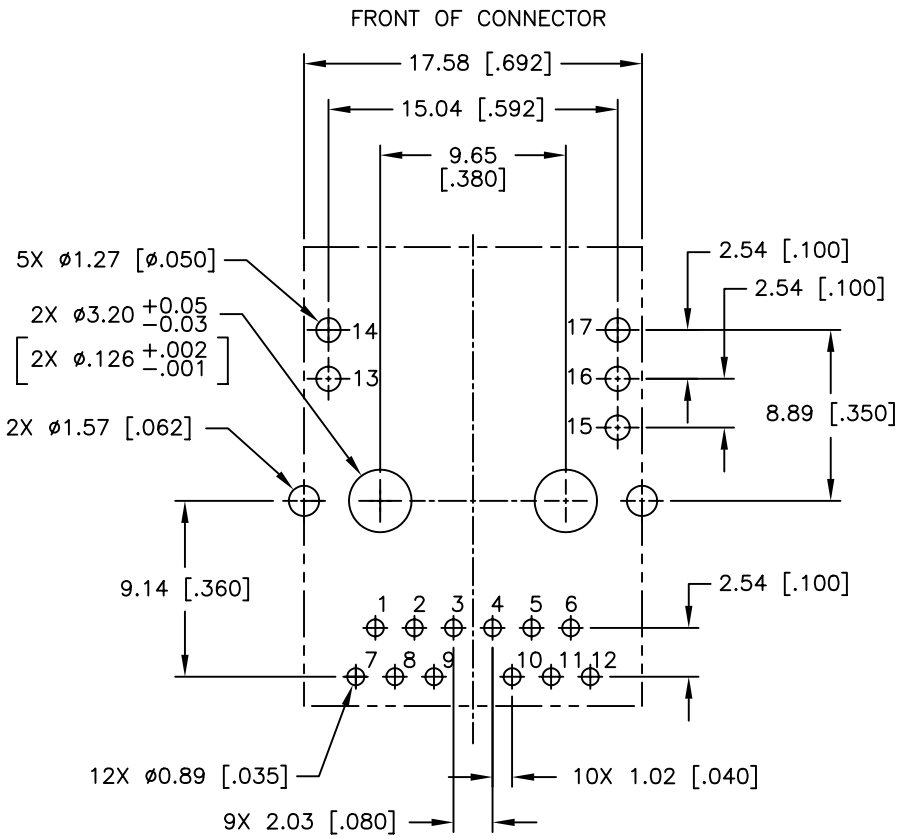
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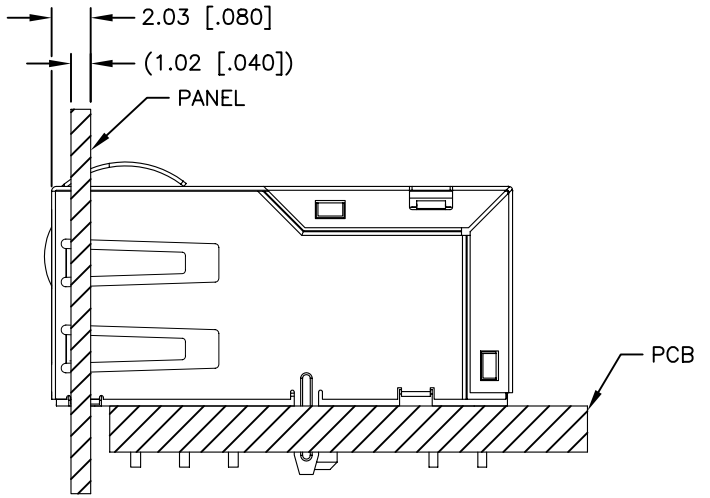
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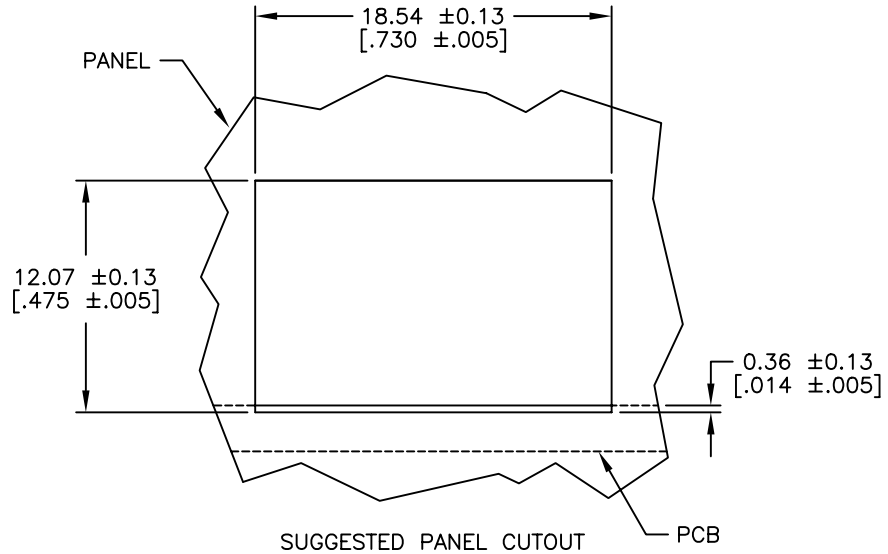
RoHS COMPLIANT

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SUGGESTED FOOTPRINT (COMPONENT SIDE SHOWN)





SUGGESTED PANEL CUTOUT

DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.
.XX [.XXX] = ±0.05 [.002]

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