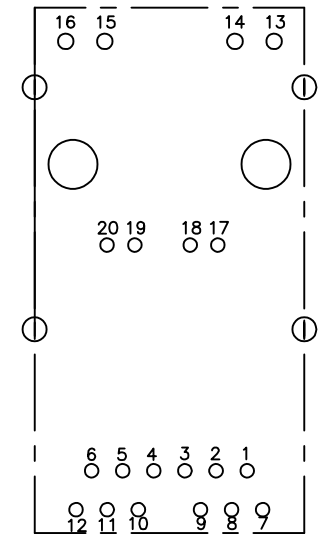
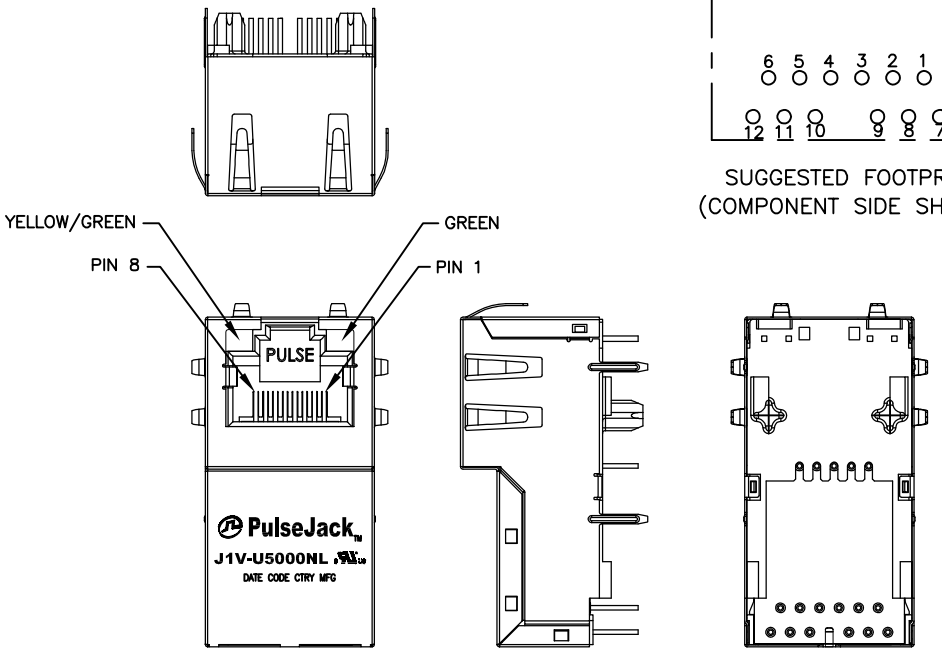
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NOTES:

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: 50u INCHES MIN 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
    - D. J-STD-075: R4, 260°C MAXIMUM REFLOW SOLDER



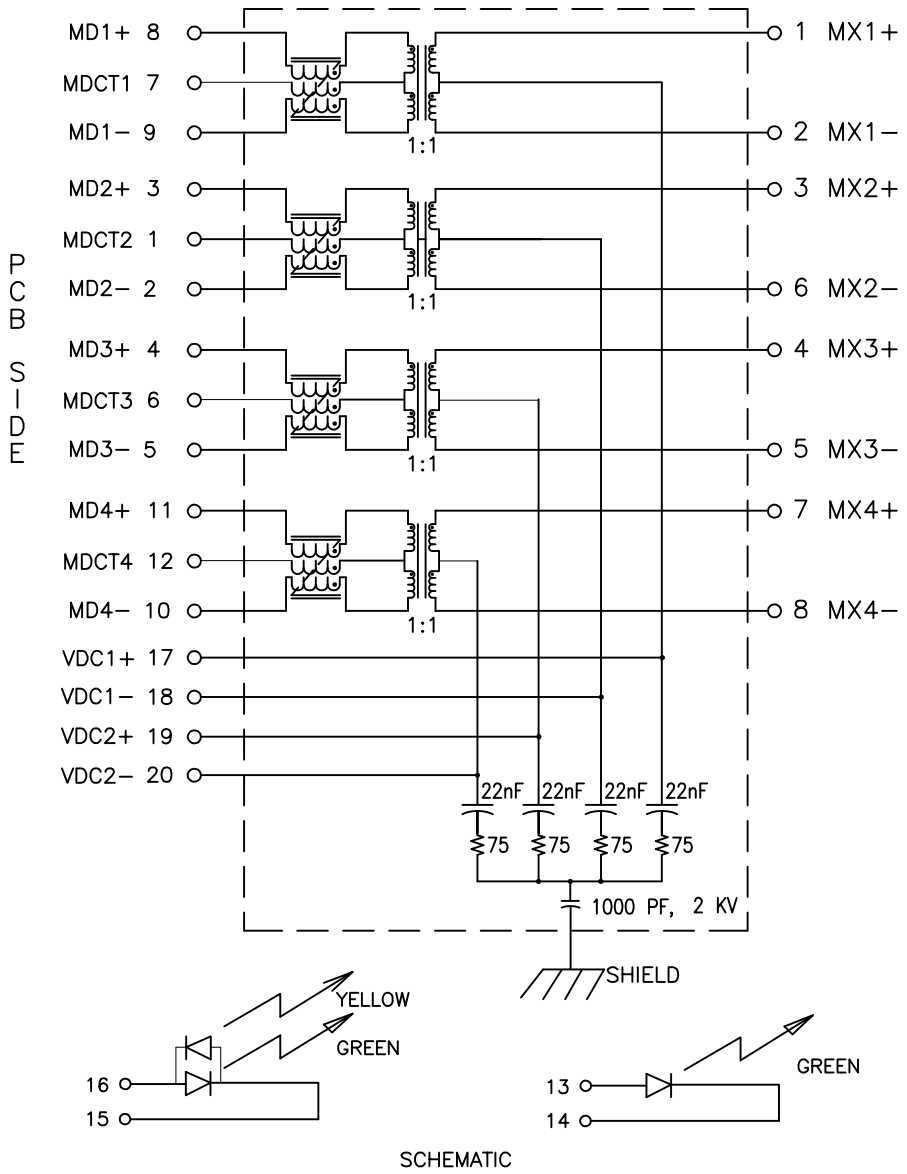
SUGGESTED FOOTPRINT
(COMPONENT SIDE SHOWN)



FINAL OUTLINE

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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
CONN,RJ45,1X1,5GPP,1:1,TY	J1V-U5000NL-12	PS-2880.002-B	1 OF 5	J1V-U5000NL	B



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	125–250 MHz
	−0.5 dB MAX	−1.0 dB MAX	−1.5 dB MAX
PHY–SIDE RETURN LOSS (SDD11 – Zref = 100 OHMS ± 1%)	1 MHz–40 MHz	40 MHz–250 MHz	
	−20 dB MIN	$-20+12.5*LOG_{10}(f/40)$ dB MIN	
LINE–SIDE RETURN LOSS (SDD22 – Zref = 100 OHMS ± 1%)	1 MHz–40 MHz	40 MHz–250 MHz	
	−20 dB MIN	$-20+12.5*LOG_{10}(f/40)$ dB MIN	
INDUCTANCE (OCL)	180 uH MIN WITH 0 mA DC BIAS		
	150 uH MIN WITH 10.8 mA DC BIAS		
CROSSTALK, ADJACENT CHANNELS (SDD21 – ADJ.)	1–150 MHz	150–250 MHz	
	−30 dB MIN	−20 dB MIN	
COMMON MODE REJECTION RATIO (SCC21)	30 MHz–400 MHz		
	−30 dB MIN		
COMM. TO DIFF. REJECTION RATIO (SDC12)	10 MHz–250 MHz		
	−45+f/35 dB MIN		
DC CURRENT CARRING CAPABILITY	720 mA MAX AT 70°C		
INPUT – OUTPUT ISOLATION	2250 VDC FOR 60 SECONDS		

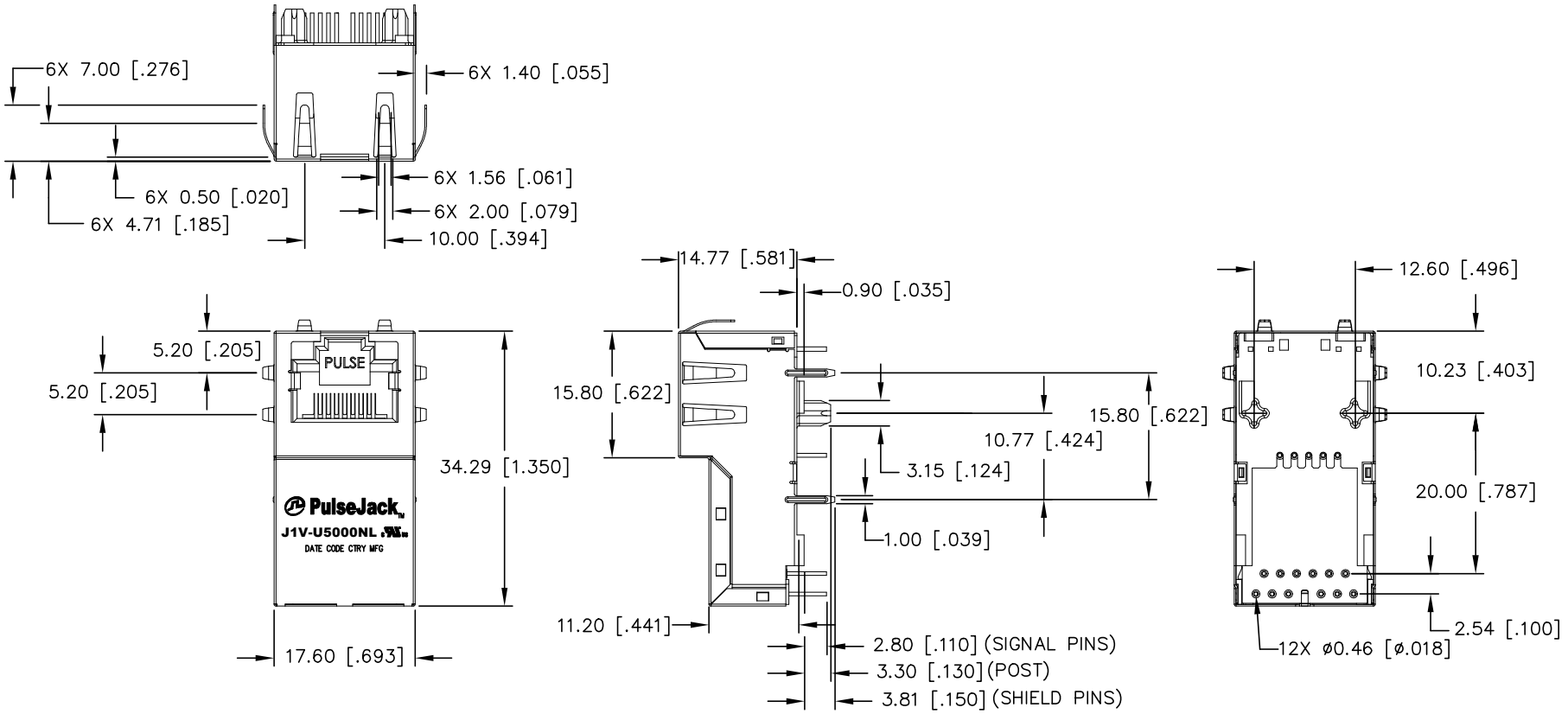
NOTE: f IS FREQUENCY IN MHz.

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

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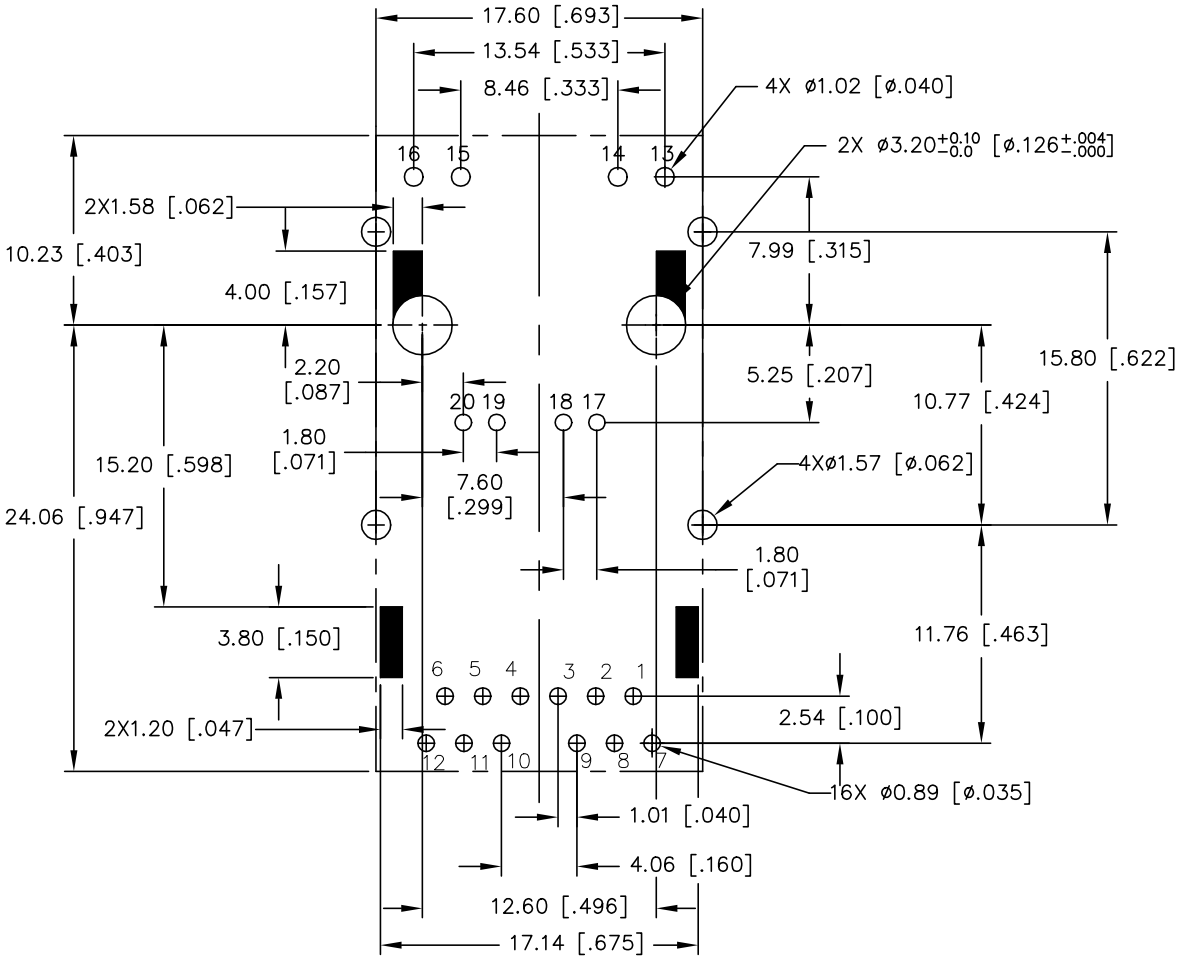
E–MAIL: PRODINFONETWORK@PULSEELECTRONICS.COM(US), ASIA@PULSEELECTRONICS.COM(Asia) PHONE: USA:858 674 8100, GERMANY:49 7032 78060, SINGAPORE:65 6287 8998, SHANGHAI:86 21 62787060, TAIWAN:886 3 4356768



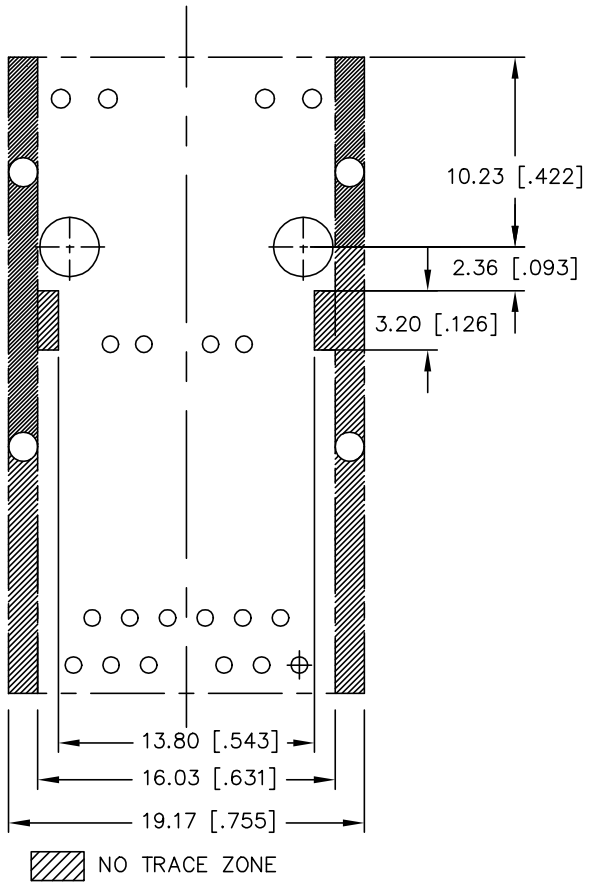
DIMENSIONS ARE IN MILLIMETERS [INCHES] WITH THE FOLLOWING TOLERANCES: [INCHES] ARE FOR REFERENCE ONLY.
X.XX [.XXX] = ±0.25 [±.010]

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CONN,RJ45,1X1,5GPP,1:1,TY	J1V-U5000NL-12	PS-2880.002-B	3 OF 5	J1V-U5000NL	B



SUGGESTED FOOTPRINT (COMPONENT SIDE SHOWN)

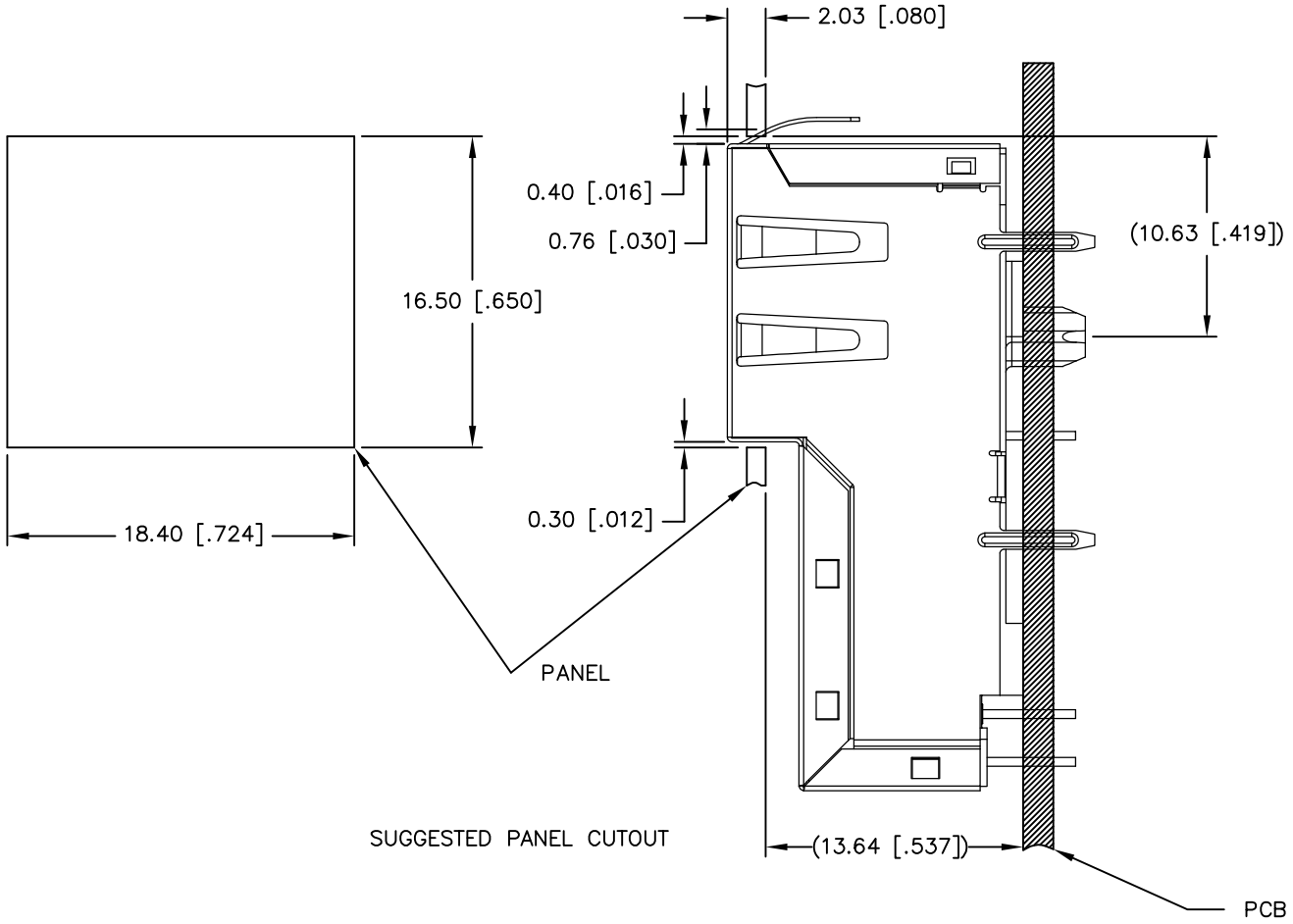


NO TRACE ZONE

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

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CONN,RJ45,1X1,5GPP,1:1,TY	J1V-U5000NL-12	PS-2880.002-B	4 OF 5	J1V-U5000NL	B



ALL DIMENSION ARE SHOWN IN MILLIMETERS. DIMENSIONS SHOWN IN BRACKETS ARE INCHES. UNLESS OTHERWISE SPECIFIED, THE FOLLOWING TOLERANCES APPLY:

X.XX [.XXX] = ±0.10 [±.004]

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CONN,RJ45,1X1,5GPP,1:1,TY	J1V-U5000NL-12	PS-2880.002-B	5 OF 5	J1V-U5000NL	B

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PA4343.451NLT PGL6395.121HLT W1093 BSPQ000603043N0B00 PAT6261.003NLT PD617-6000M243 ANT1204F007R0870A PA2744NL PA4341.221NLT PA4343.361NLT W3078 W3334B0150 DPX1608LKF3R2460A JXD0-2015NL PA4320.104NLT PA4320.334NLT PG2290.151HLT JXD2-0Z10NL PA4341.301NLT PE-67100NL W1902 BBUP00201209121Y00 PD380-4000S1NF E5J88-032-02-L P0585NL PE-68386NLT AWCS0012070736NJ00 BDHE002520122R2MQ1 BSPQ000603041N4B00 PA0369NL