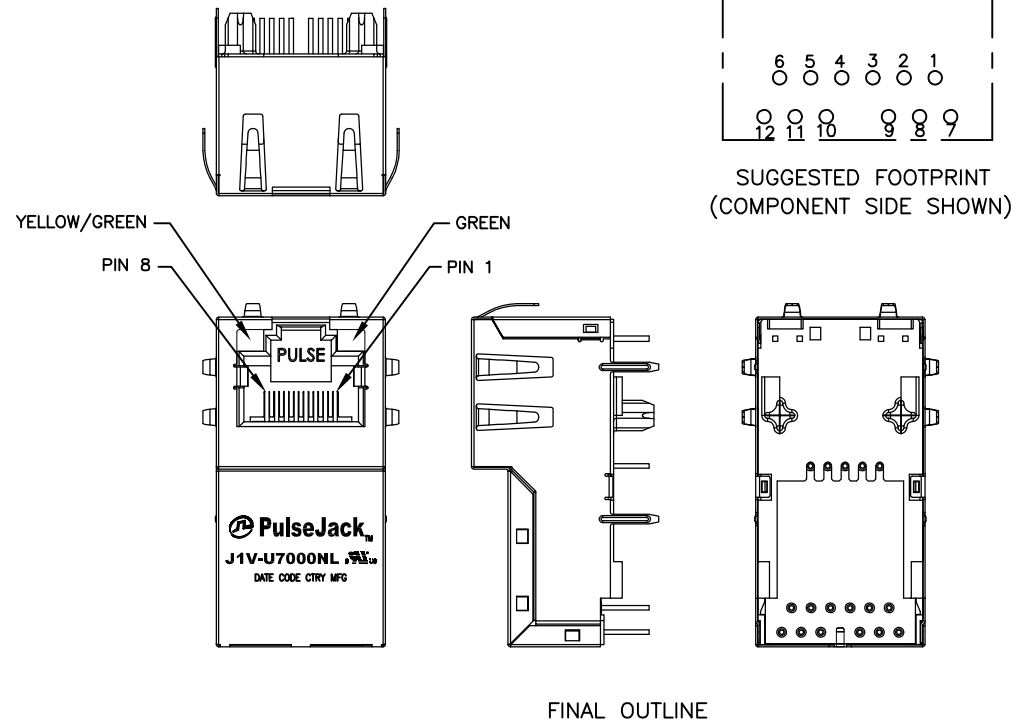


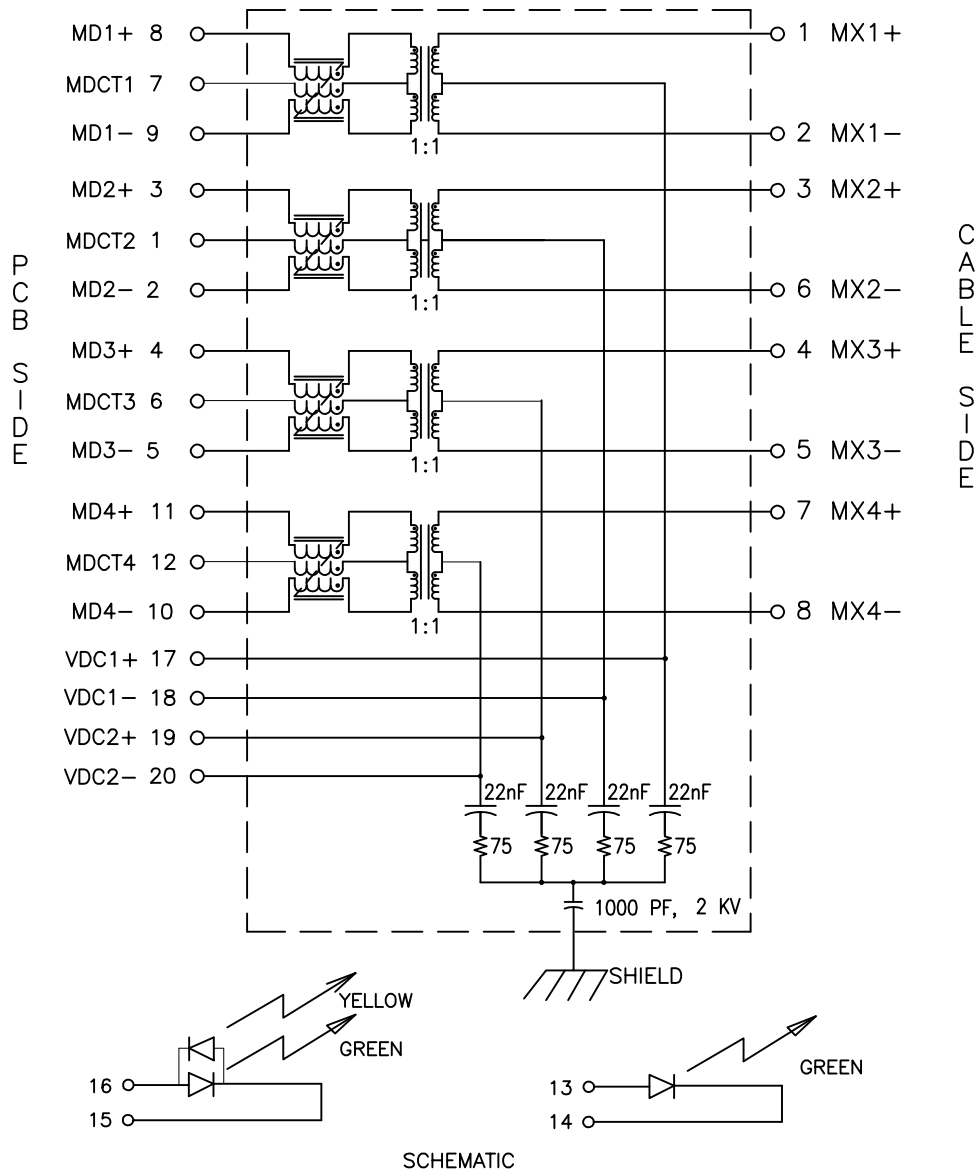
#### NOTES:

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: 50μ INCHES MIN NICKEL
6. SOLDER TAIL PLATING : 200-500 μINCHES 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



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| PRODUCT DESCRIPTION        | TLA DRAWING    | PS DRAWING    | SHEET  | PART NO.    | DATASHEET REV. |
|----------------------------|----------------|---------------|--------|-------------|----------------|
| CONN,RJ45,1X1,10GPP,1:1,TY | J1V-U7000NL-12 | PS-2880.002-B | 1 OF 5 | J1V-U7000NL | B              |



ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED

| PARAMETER                                    | SPECIFICATIONS               |                                       |             |
|----------------------------------------------|------------------------------|---------------------------------------|-------------|
| OPERATING TEMP                               | 0°C TO +70°C                 |                                       |             |
| URNS RATIO                                   | 1.00 ± 2%                    |                                       |             |
| POLARITY                                     | PER SCHEMATIC                |                                       |             |
| INSERTION LOSS                               | 100 KHz                      | 1–400 MHz                             |             |
|                                              | –3.0 dB MAX                  | –2.0 dB MAX (–1.4 dB TYP)             |             |
| RETURN LOSS<br>(Z OUT = 100 OHM ± 1%)        | 1–100 MHz                    | 100 MHz–500 MHz                       |             |
|                                              | –22 dB MIN                   | –22 + 20.75*LOG <sub>10</sub> (f/100) |             |
| INDUCTANCE (OCL)                             | 150 uH MIN @ 100 kHz, 100 mV |                                       |             |
| CROSSTALK, ADJACENT CHANNELS                 | 1–100 MHz                    | 100–500 MHz                           |             |
|                                              | –28 dB MIN                   | –19 dB MIN                            |             |
| COMMON MODE REJECTION RATIO                  | 1–40 MHz                     | 40–100 MHz                            | 100–500 MHz |
|                                              | –30 dB MIN                   | –28 dB MIN                            | –26 dB MIN  |
| COMMON TO DIFFERENTIAL MODE REJECTION (CDMR) | 1–250 MHz                    | 250–500 MHz                           |             |
|                                              | –30 dB MIN                   | –22 dB MIN                            |             |
| CURRENT CARRYING CAPABILITY, RJ45 PINS 1–8   | 600 mA MAX                   |                                       |             |
| INPUT – OUTPUT ISOLATION                     | 2250 VDC MIN @ 60 SECONDS    |                                       |             |

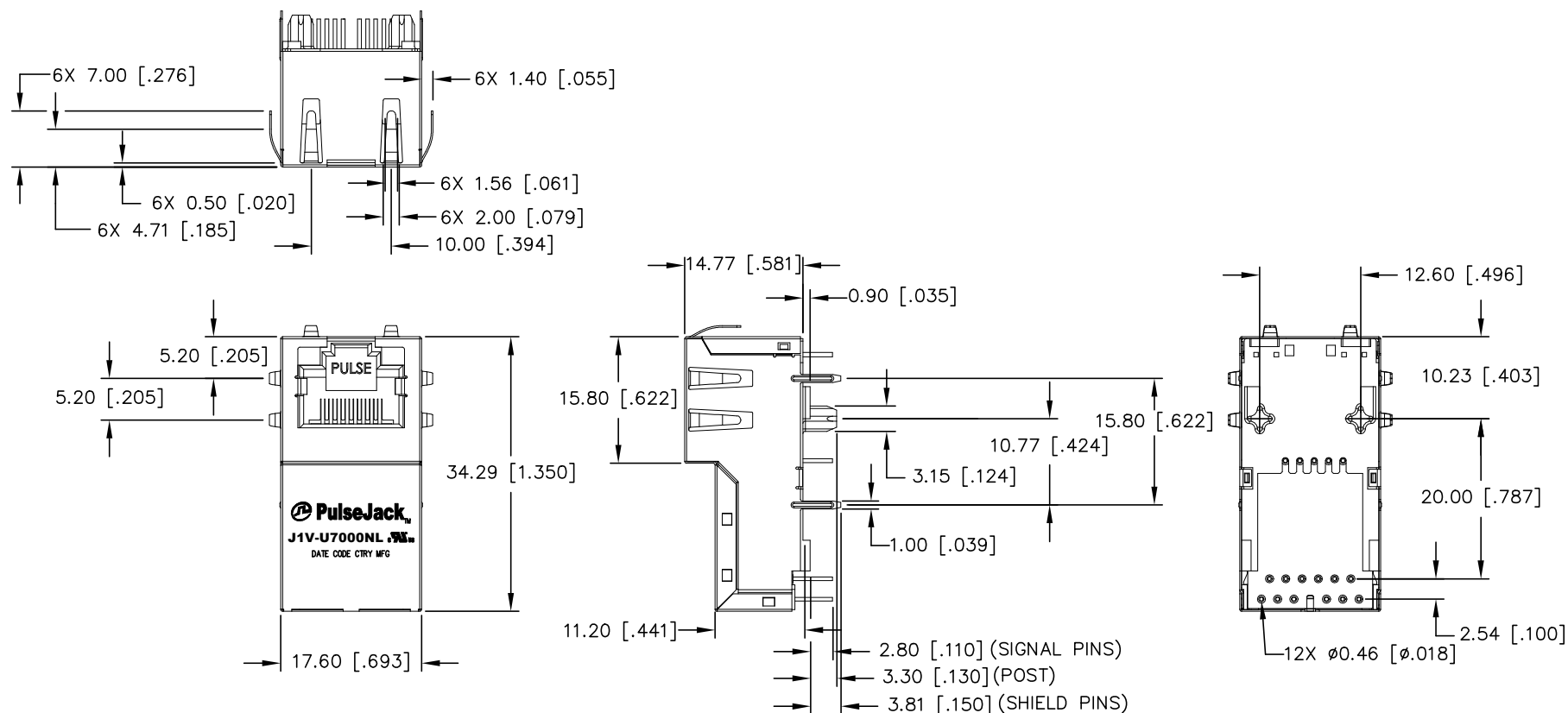
NOTE: f IS FREQUENCY IN MHZ.

| EMMITTED COLOR         | GREEN              | YELLOW             |
|------------------------|--------------------|--------------------|
| WAVELENGTH (nm)        | 568 nm             | 585 nm             |
| BRIGHTNESS (mCD)       | 8.5 TYP.<br>@ 20mA | 6.0 TYP.<br>@ 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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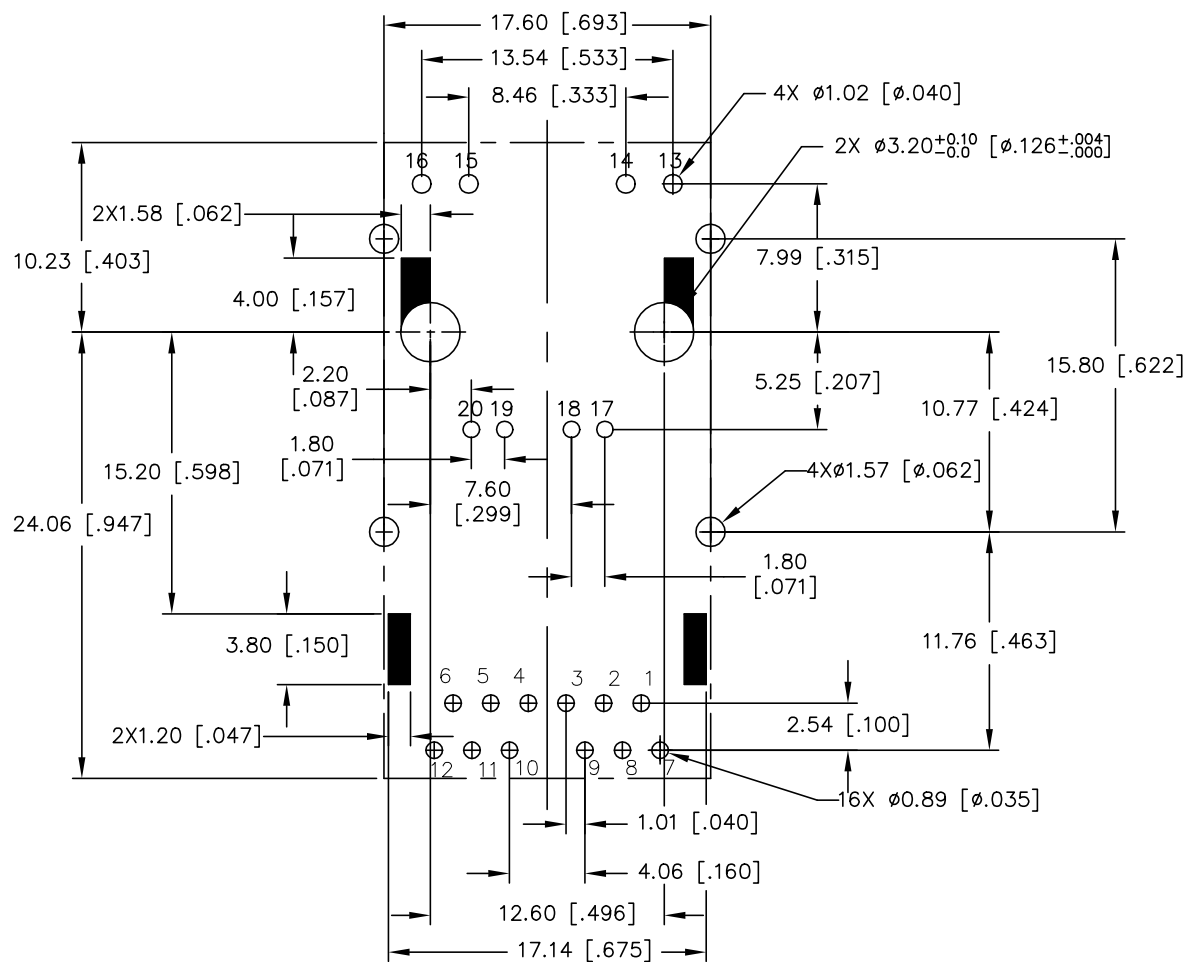
| PRODUCT DESCRIPTION        | TLA DRAWING    | PS DRAWING    | SHEET  | PART NO.    | DATASHEET REV. |
|----------------------------|----------------|---------------|--------|-------------|----------------|
| CONN,RJ45,1X1,10GPP,1:1,TY | J1V-U7000NL-12 | PS-2880.002-B | 2 OF 5 | J1V-U7000NL | B              |



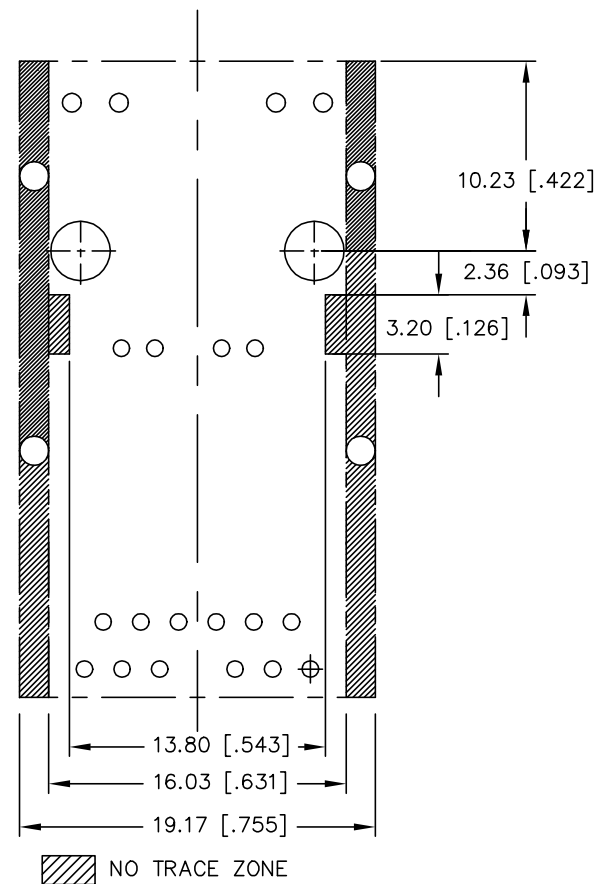
DIMENSIONS ARE IN MILLIMETERS [INCHES] WITH THE FOLLOWING  
TOLERANCES: [INCHES] ARE FOR REFERENCE ONLY.  
X.XX [.XXX] =  $\pm 0.25$  [ $\pm 0.010$ ]

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| PRODUCT DESCRIPTION        | TLA DRAWING    | PS DRAWING    | SHEET  | PART NO.    | DATASHEET REV. |
|----------------------------|----------------|---------------|--------|-------------|----------------|
| CONN,RJ45,1X1,10GPP,1:1,TY | J1V-U7000NL-12 | PS-2880.002-B | 3 OF 5 | J1V-U7000NL | B              |



SUGGESTED FOOTPRINT (COMPONENT SIDE SHOWN)



DIMENSIONS ARE IN MILLIMETERS [INCHES] WITH THE FOLLOWING  
TOLERANCES: [INCHES] ARE FOR REFERENCE ONLY.  
X.XX [.XXX] =  $\pm 0.05$  [ $\pm 0.002$ ]

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PRODUCT DESCRIPTION

CONN,RJ45,1X1,10GPP,1:1,TY

TLA DRAWING

J1V-U7000NL-12

PS DRAWING

PS-2880.002-B

SHEET

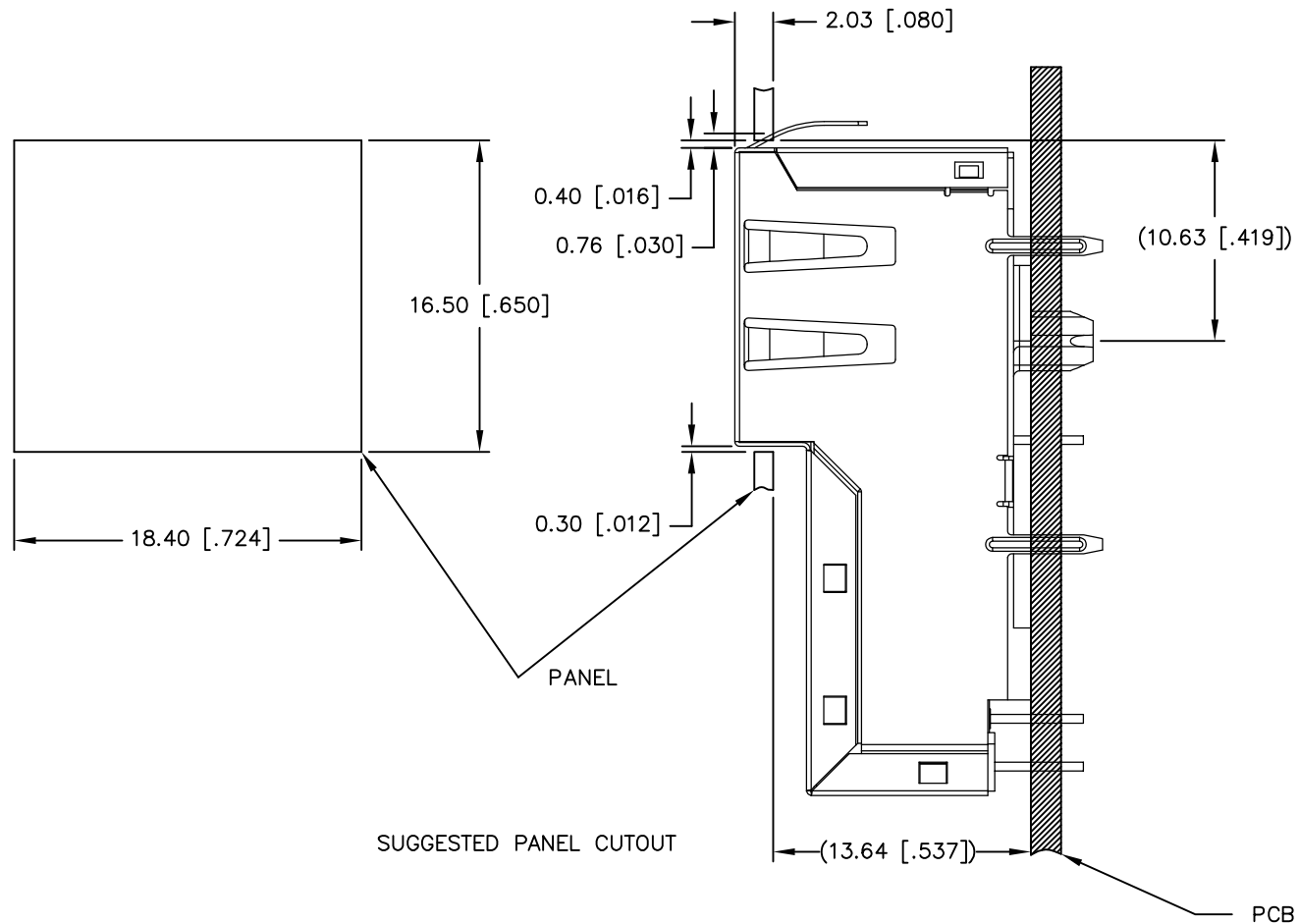
4 OF 5

PART NO.

J1V-U7000NL

DATASHEET REV.

B



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

X.XX [.XXX] =  $\pm 0.10$  [ $\pm .004$ ]

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| PRODUCT DESCRIPTION        | TLA DRAWING    | PS DRAWING    | SHEET  | PART NO.    | DATASHEET REV. |
|----------------------------|----------------|---------------|--------|-------------|----------------|
| CONN,RJ45,1X1,10GPP,1:1,TY | J1V-U7000NL-12 | PS-2880.002-B | 5 OF 5 | J1V-U7000NL | B              |

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J1V-U7000NL