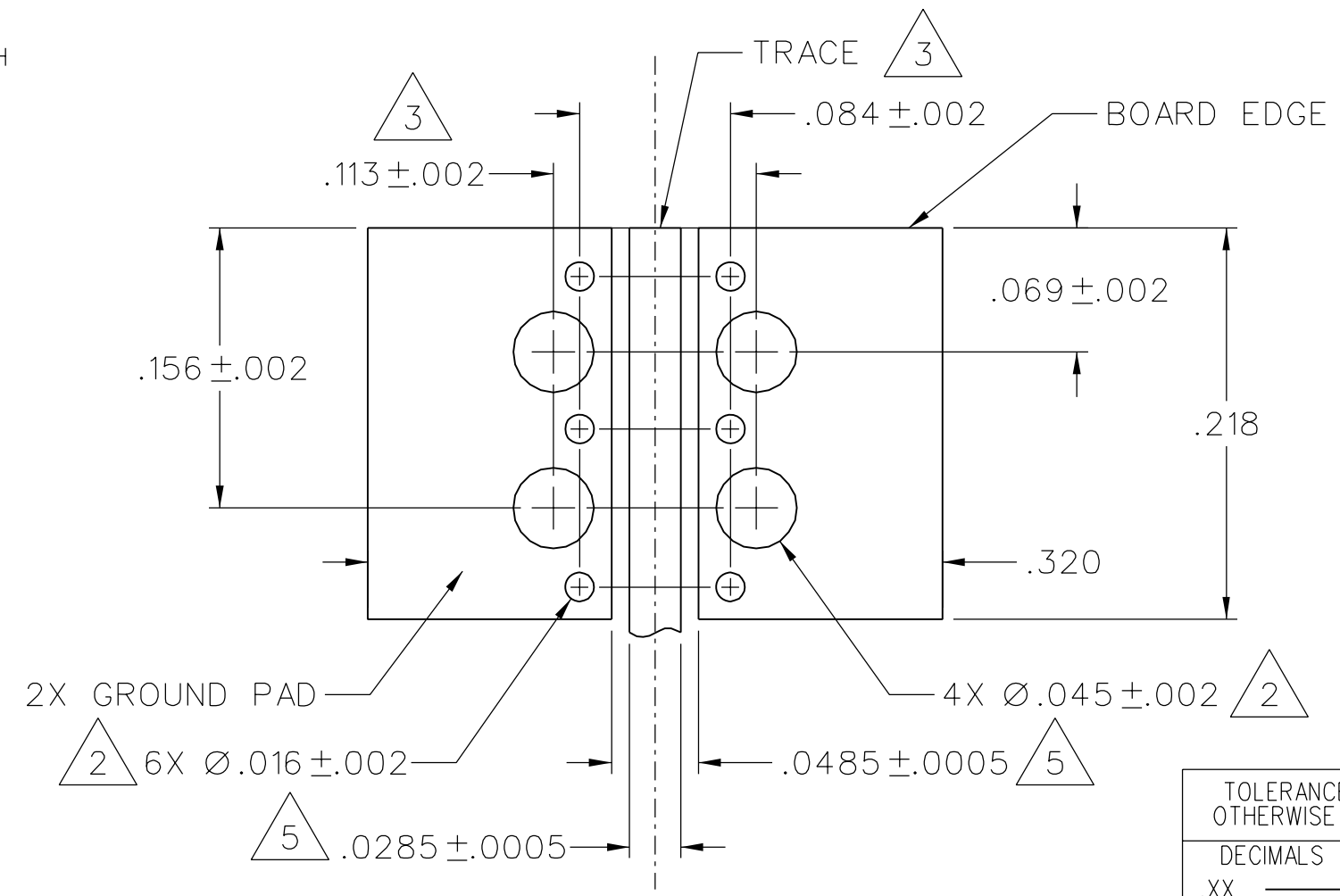
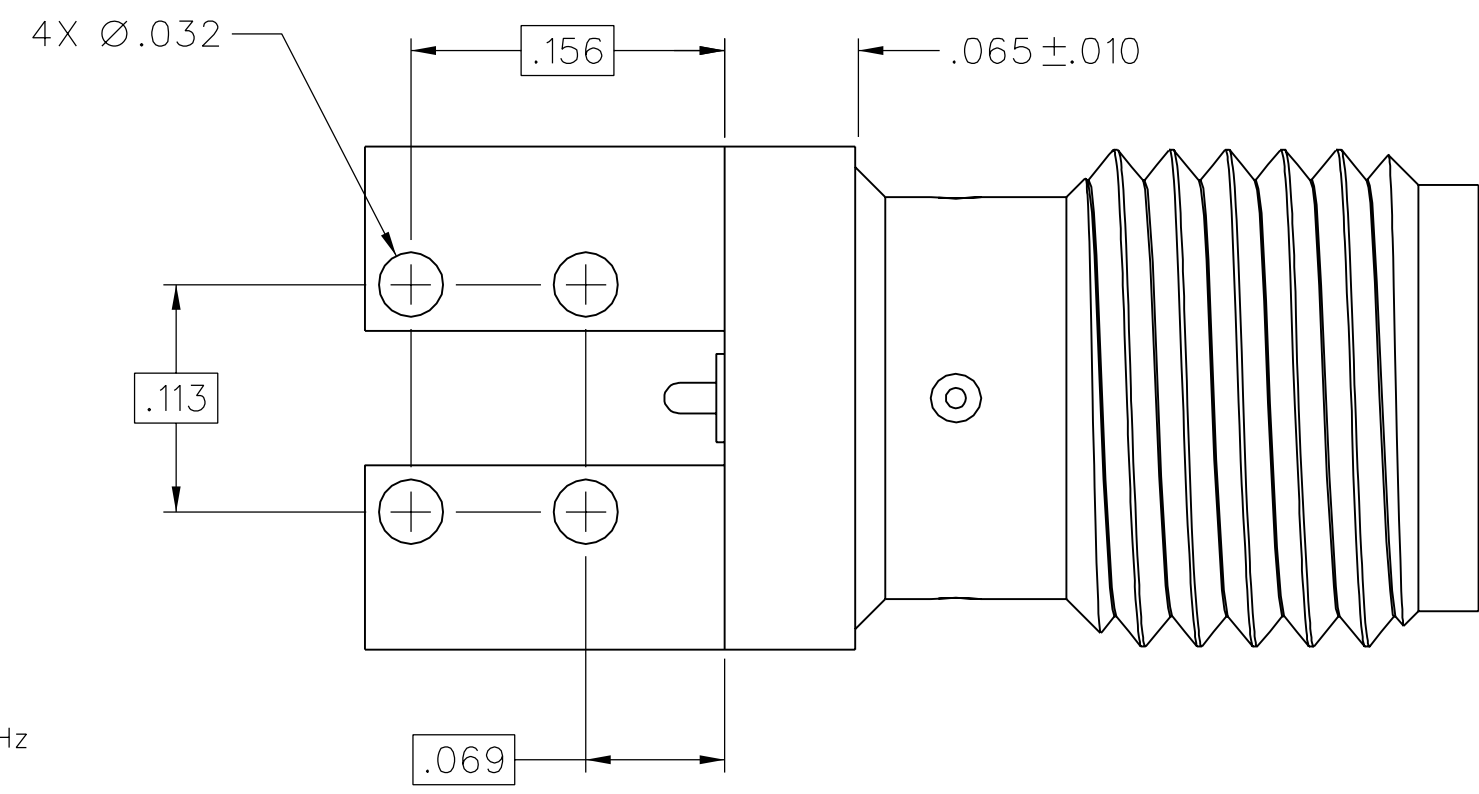
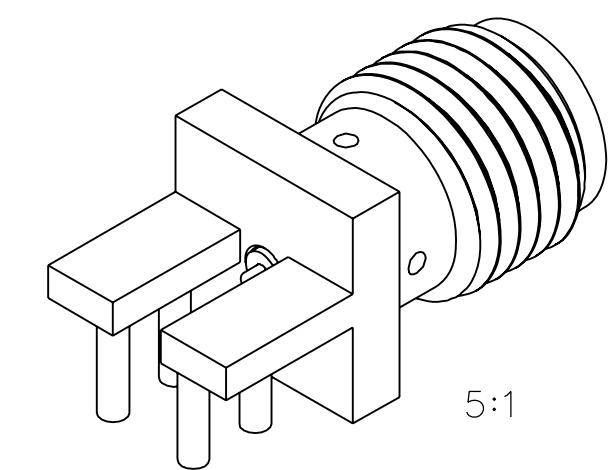
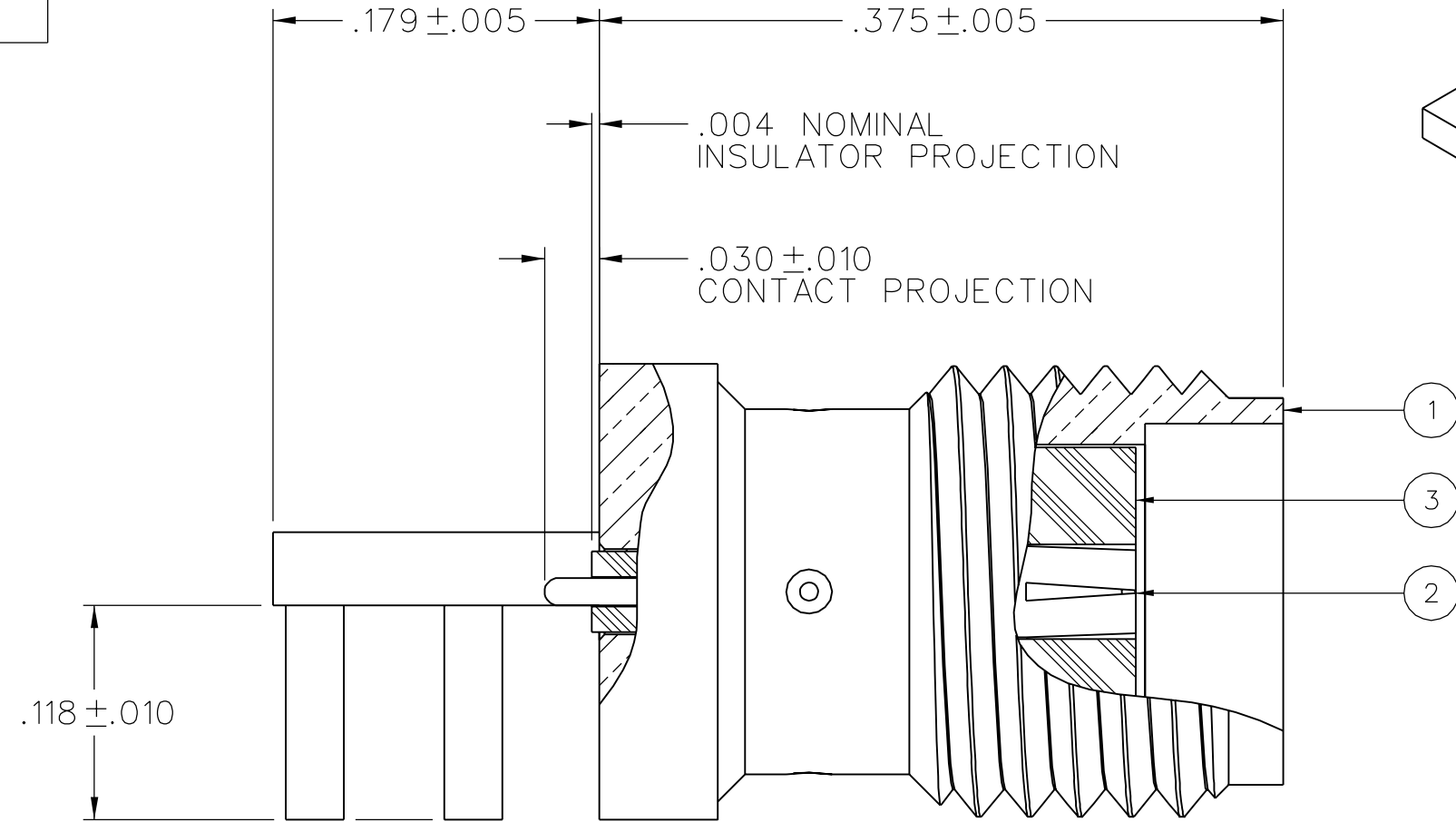
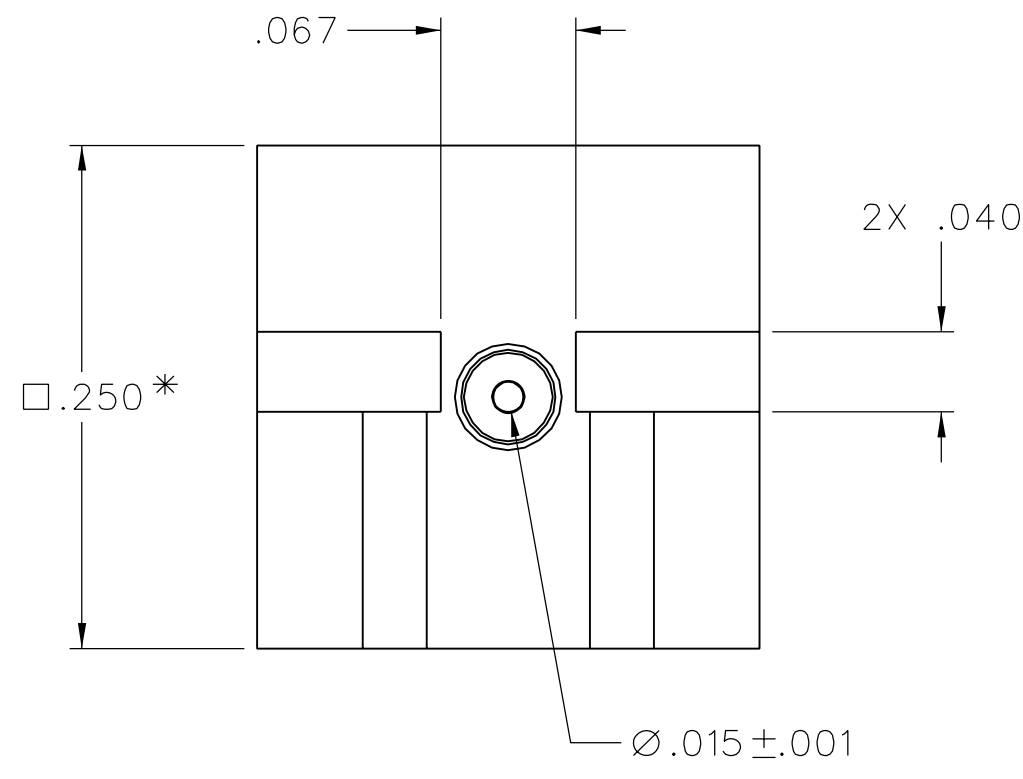


|                             |  |   |                               |
|-----------------------------|--|---|-------------------------------|
| PART NUMBER<br>142-0761-831 | ITEM ①<br>BODY<br>BRASS<br>GOLD PL .00001 MIN OVER<br>NICKEL PL .0001 MIN OVER<br>COPPER PL .00005 MIN | ITEM ②<br>CONTACT<br>BERYLLIUM COPPER<br>GOLD PL .00005 MIN OVER<br>NICKEL PL .00005 MIN OVER<br>COPPER PL .00005 MIN | ITEM ③<br>INSULATOR<br>TEFLON |
|-----------------------------|--|---|-------------------------------|



NOTES:

- SPECIFICATIONS:
  - IMPEDANCE: 50 OHMS
  - FREQUENCY RANGE: 0-26.5 GHz
  - VSWR: 1.05+.02F(GHz) MAX AT 0-18 GHz, TYPICALLY < 1.50 AT 18-26.5 GHz
  - WORKING VOLTAGE: 170 VRMS MAX AT SEA LEVEL
  - DIELECTRIC WITHSTANDING VOLTAGE: 500 VRMS MIN AT SEA LEVEL
  - INSULATION RESISTANCE: 1000 MEGOHM MIN
  - CONTACT RESISTANCE:
    - CENTER CONTACT - INITIAL 3.0 MILLIOHM MAX, AFTER ENVIRONMENTAL 4.0 MILLIOHM MAX
    - OUTER CONDUCTOR - INITIAL 2.0 MILLIOHM MAX AFTER ENVIRONMENTAL NOT APPLICABLE
  - CORONA LEVEL: 125 VOLTS MIN AT 70,000 FEET
  - INSERTION LOSS: NOT APPLICABLE (DEPENDANT UPON APPLICATION)
  - RF LEAKAGE: NOT APPLICABLE
  - RF HIGH POTENTIAL WITHSTANDING VOLTAGE: 335 VRMS MIN AT 4 AND 7 MHz
- MECHANICAL:
  - ENGAGE/DISENGAGE TORQUE: 2 INCH-POUNDS MAX
  - MATING TORQUE: 7-10 INCH POUNDS WHEN BODY SUPPORTED WITH WRENCH  
\* 8 INCH POUNDS MAX UNSUPPORTED
  - CONTACT RETENTION: 6 LBS MIN AXIAL FORCE ON MATING END  
4 IN-OZ MIN RADIAL TORQUE
  - DURABILITY: 500 CYCLES MIN
- ENVIRONMENTAL:
  - (MEETS OR EXCEEDS THE APPLICABLE PARAGRAPH OF MIL-PRF-39012)
  - THERMAL SHOCK: MIL-STD-202, METHOD 107, CONDITION B, EXCEPT 115° C HIGH TEMP
  - OPERATING TEMPERATURE: -65 DEG C TO 165 DEG C
  - CORROSION: MIL-STD-202, METHOD 101, CONDITION B
  - SHOCK: MIL-STD-202, METHOD 213, CONDITION I
  - VIBRATION: MIL-STD-202, METHOD 204, CONDITION D
  - MOISTURE RESISTANCE: MIL-STD-202, METHOD 106
- ALL HOLES PLATED THRU ENTIRE CIRCUIT BOARD STACKUP.
- HOLE PATTERNS SYMMETRICAL ABOUT CENTER OF CPW TRACE.
- FOR OPTIMUM CIRCUIT BOARD HIGH FREQUENCY PERFORMANCE:
  - A. MAINTAIN SOLID GROUND PLANE BELOW HF SUBSTRATE.
  - B. CONTROL PULLBACK OF TRACE AND GROUND FROM BOARD EDGE.
  - C. CONTINUE GROUNDED COPLANAR LINE BEYOND GROUND PADS.
  - D. PLACE 16 MIL DIA GROUND VIAS ON BOTH SIDES OF COPLANAR WAVEGUIDE LINE AT 50 MIL INTERVALS ALONG ENTIRE LENGTH.
  - E. IMMERSION GOLD PLATE (ENIG) ALL CONDUCTORS PER IPC-4552.
- REFERENCE DIMENSIONS FOR 50 OHM GROUNDED CPW LINE, USING ROGERS RO4003, 16 MIL HIGH FREQUENCY CIRCUIT BOARD SUBSTRATE:
  - TRACE WIDTH = 28.5 MILS
  - GROUND GAPS = 10 MILS
  - CONDUCTOR THICKNESS = 1.4 MIL (INCLUDES PLATING)
- EMERSON NETWORK POWER CONNECTIVITY SOLUTIONS HIGH FREQUENCY END LAUNCH CONNECTORS ARE COVERED UNDER US PATENT NUMBER 7,344,381

MOUNTING FOOTPRINT  
10:1 (TOP VIEW, INCLUDING TRACE DIMENSIONS)

DRAWING NO.  
C - 142-0761-831/840

|   |           |     |     |                       |
|---|-----------|-----|-----|-----------------------|
| 0   | REVISIONS |     |     |                       |
| ENGINEERING RELEASE   |           |     |     |                       |
| 1   | 11-5-04   | JRK |     | 12-15-04<br>ECN 49543 |
| ADDED NOTE: 6   |           |     |     |                       |
| *****<br>* REVISION NUMBER FOLLOWED BY AN ALPHA *<br>* CHARACTER INDICATES DRAWING CLARIF- *<br>* CATION OR PART NUMBER ADDITION ONLY. *<br>***** |           |     |     |                       |
| 1a  | 4-14-08   | PAT | JRK | 5-7-08<br>ECN 51478   |

CUSTOMER DRAWING

THIS DRAWING TO BE INTERPRETED  
PER ASME Y 14.5M - 1994

"μSTATION"

COMPANY CONFIDENTIAL

|                                      |    |                    |                  |
|--------------------------------------|----|--------------------|------------------|
| TOLERANCE UNLESS OTHERWISE SPECIFIED |    | DRAWN BY<br>JRK    | DATE<br>11-1-04  |
| DECIMALS                             | mm | CHECKED BY         | DATE             |
| .XX                                  |    |                    |                  |
| .XXX ±.003                           |    | APPROVED BY<br>JRK | DATE<br>12-15-04 |
| MATL                                 |    | RELEASE DATE       | 2-15-04          |
| FINISH                               |    | U/M                | INCH             |
|                                      |    | SCALE              | 10:1             |

**cinch** CONNECTIVITY SOLUTIONS  
a bel group

Cinch Connectivity Solutions  
P.O. Box 1732  
Waseca, MN 56093  
1-800-247-8256

TITLE  
HIGH FREQ END LAUNCH  
SMA JACK ASSEMBLY,  
PC MOUNT, 15 MIL PIN

SHEET  
2 OF 2

DRAWING NO.  
C - 142-0761-831/840