

| PART NUMBER | ITEM ① BODY | ITEM ② CONTACT | ITEM ③ INSULATOR | PACKAGING |
|--------------|--|--|---------------------|---|
| 127-2701-801 | BERYLLIUM COPPER GOLD PL .00005 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN | BERYLLIUM COPPER GOLD PL .00005 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN | TEFLON | BULK PACK 5 PCS/BAG |
| 127-2701-802 | BERYLLIUM COPPER GOLD PL .00005 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN | BERYLLIUM COPPER GOLD PL .00005 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN | TEFLON | TAPE AND REEL 1000 PCS. PER FIG 1 |

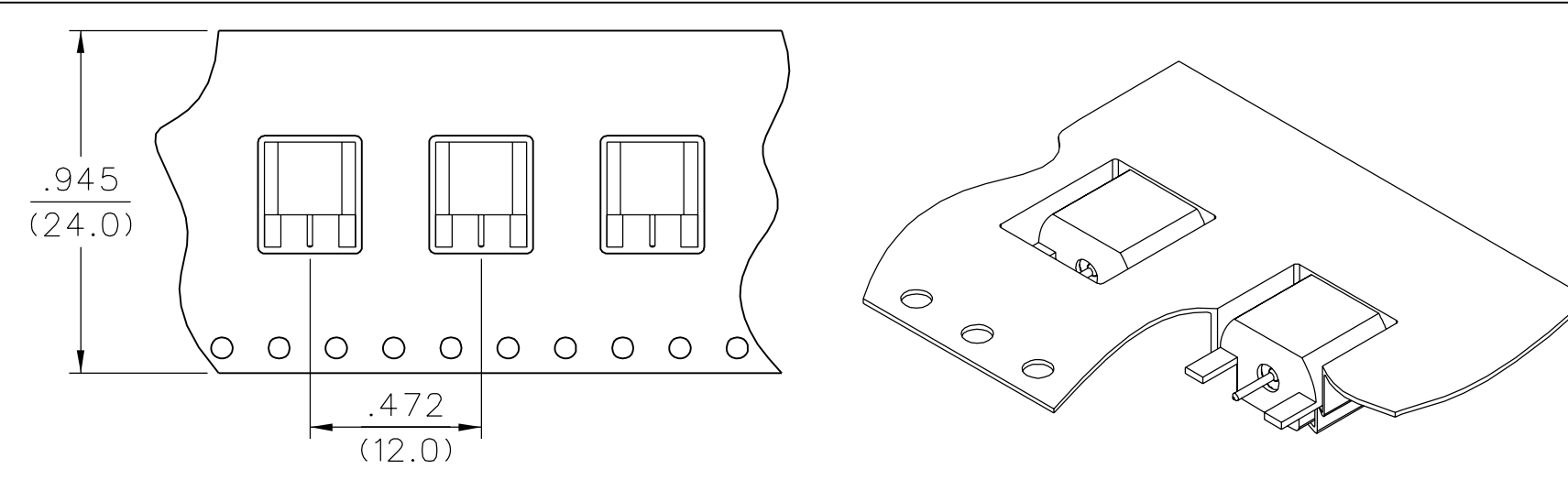
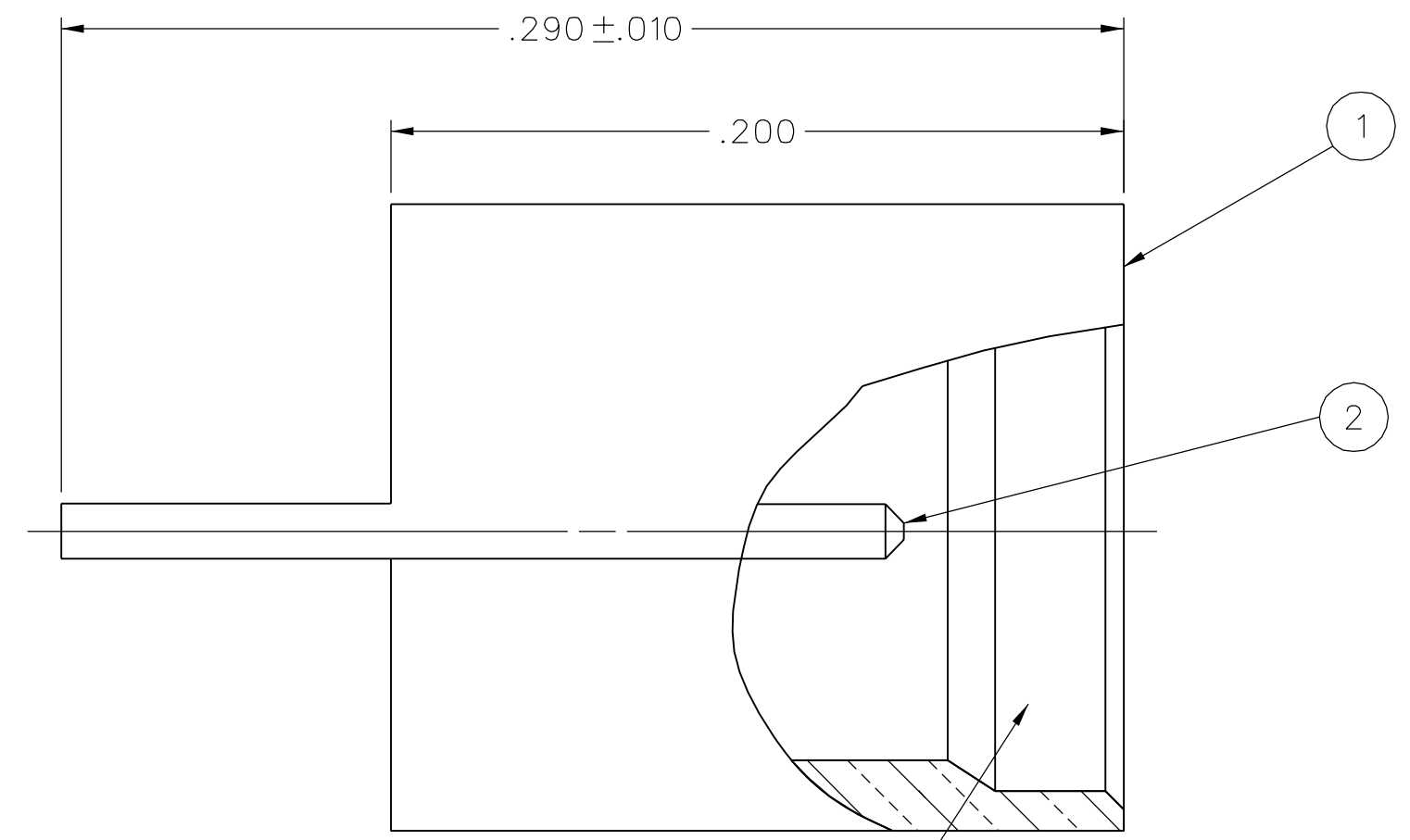
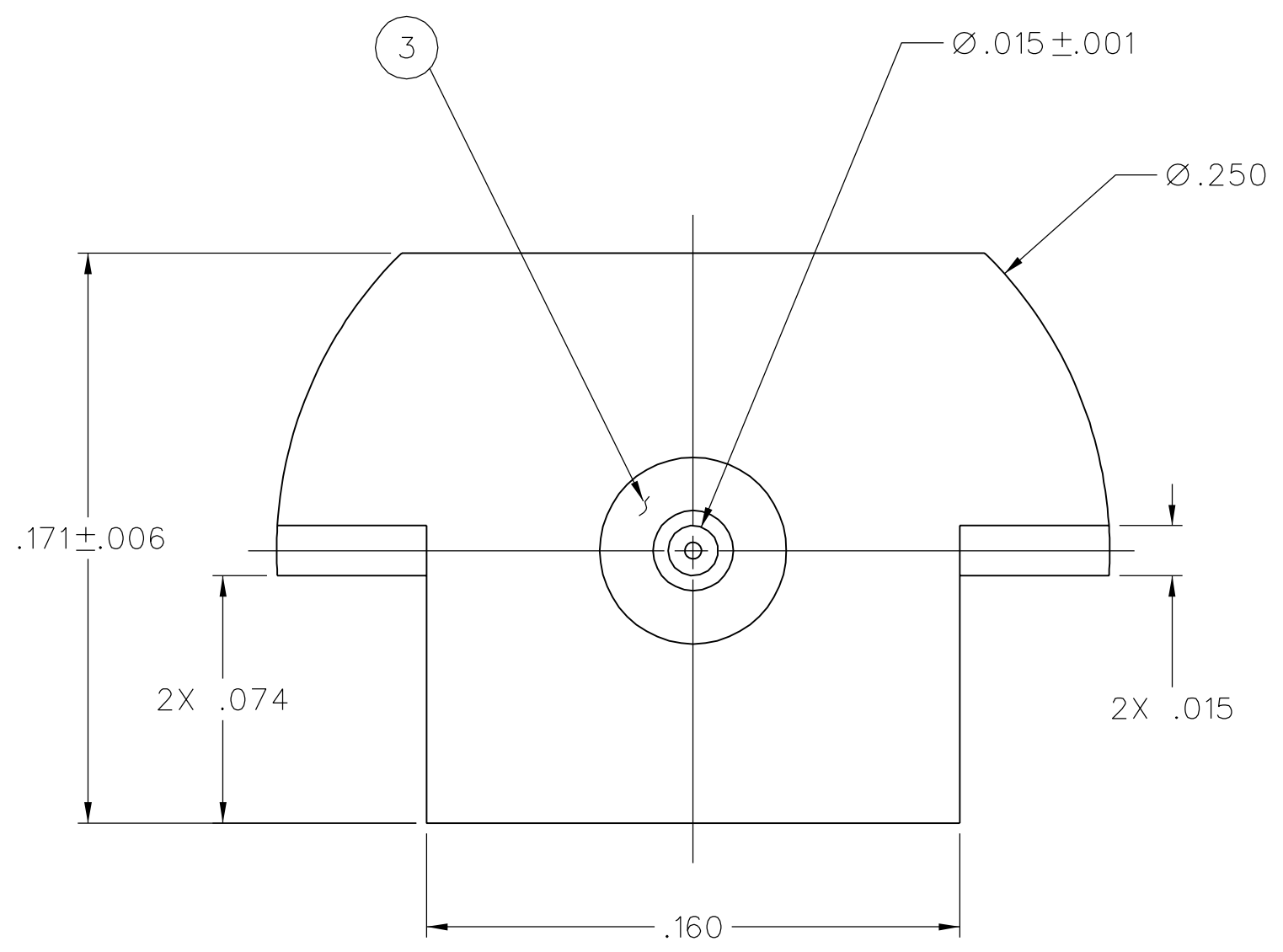
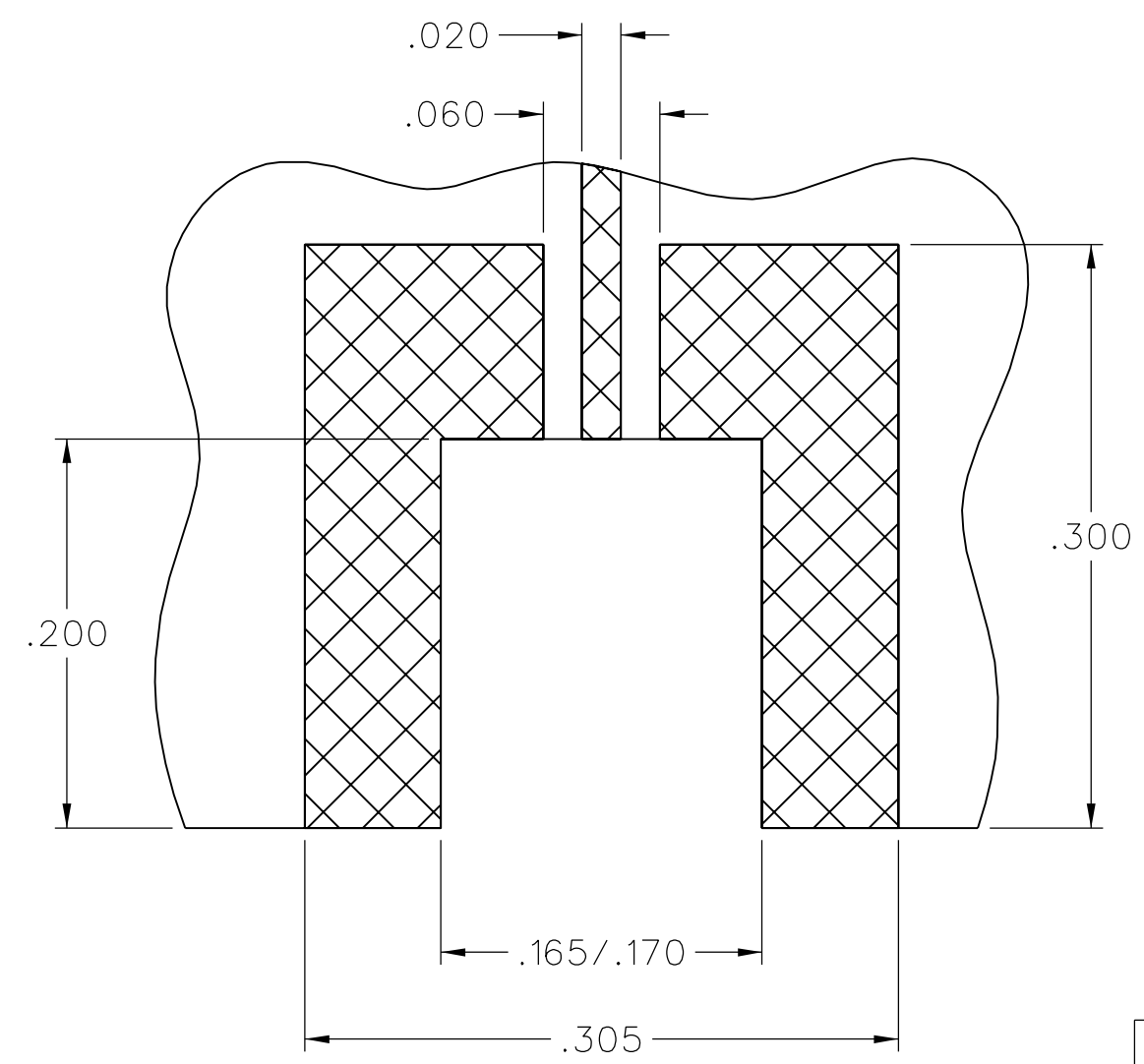


FIG 1
2:1 TOP VIEW



SMP SMOOTH BORE
INTERFACE
PER MIL-STD-348A



RECOMMENDED PCB LAYOUT

THIS PATTERN IS FOR REFERENCE ONLY.
PATTERN WILL VARY DEPENDING ON
ASSEMBLY PROCESS, BOARD TYPE, OR
ELECTRICAL AND MECHANICAL REQUIREMENTS.

NOTES:

- SPECIFICATIONS:
 - IMPEDENCE: 50 OHMS NOMINAL
 - FREQUENCY RANGE: 0-18 GHz
 - VSWR: DEPENDANT ON APPLICATION
 - WORKING VOLTAGE: 335 VRMS MAX AT SEA LEVEL
 - DIELECTRIC WITHSTANDING VOLTAGE: 500 VRMS MIN AT SEA LEVEL
 - INSULATION RESISTANCE: 5000 MEGOHM MIN
 - CONTACT RESISTANCE:
 - CENTER CONTACT - INITIAL 6.0 MILLIOHM MAX, AFTER ENVIRONMENTAL NOT APPLICABLE
 - OUTER CONDUCTOR - INITIAL 2.0 MILLIOHM MAX, AFTER ENVIRONMENTAL NOT APPLICABLE
 - CORONA LEVEL: 190 VOLTS MIN AT 70,000 FEET
 - RF HIGH POTENTIAL WITHSTANDING VOLTAGE: 325 VRMS MIN AT 4 AND 7 MHz
- MECHANICAL:
 - INTERFACE DESIGN: IN ACCORDANCE WITH MIL-STD-348A, SERIES SMP, SMOOTH BORE
 - ENGAGEMENT FORCE: 2 LBS MAX
 - DISENGAGEMENT FORCE: 0.5 LBS MIN
 - CONTACT RETENTION: 1.5 LBS MIN AXIAL FORCE
 - DURABILITY: 1000 CYCLES MIN
- ENVIRONMENTAL:
 - (MEETS OR EXCEEDS THE APPLICABLE PARAGRAPH OF DSCC DWG NO. 94007)
 - OPERATING TEMPERATURE: -65°C TO 165°C
 - THERMAL SHOCK: MIL-STD-202, METHOD 107, CONDITION B, EXCEPT 165°C HIGH TEMP
 - MECHANICAL SHOCK: MIL-STD-202, METHOD 213, CONDITION I
 - CORROSION: MIL-STD-202, METHOD 101, CONDITION B
 - VIBRATION: MIL-STD-202, METHOD 204, CONDITION D
 - MOISTURE RESISTANCE: MIL-STD-202, METHOD 106, EXCEPT STEP 7B OMITTED


| | |
|--|--|
| DRAWING NO. C - 127-2701-801/810 | |
| 0 REVISIONS | |
| ENGINEERING RELEASE | |
| 1 | 7-6-07 PAT 7-16-07 |
| .945 WAS .630 (24.0) (16.0) | |
| ***** * REVISION NUMBER FOLLOWED BY AN ALPHA * * CHARACTER INDICATES DRAWING CLARIFI- * CATION OR PART NUMBER ADDITION ONLY. * ***** | |
| 1a | 7-30-07 PAT 7-30-07 JRK PDW JCN ECN 51158 |

CUSTOMER DRAWING

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

"μ STATION"

COMPANY CONFIDENTIAL

| | | | | |
|--------------------------------------|-------------------------|-----------------|---|---|
| TOLERANCE UNLESS OTHERWISE SPECIFIED | DRAWN BY PAT | DATE 6-27-07 |  Cinch CONNECTIVITY SOLUTIONS a bel group | Cinch Connectivity Solutions P.O. Box 1732 Waseca, MN 56093 1-800-247-8256 |
| DECIMALS mm .XX _____ | CHECKED BY JRK | DATE 7-16-07 | | TITLE SMP SMOOTH BORE SURFACE MOUNT END LAUNCH |
| .XXX ±.003 _____ | APPROVED BY PDW | DATE 7-16-07 | SHEET 2 OF 2 | DRAWING NO. C - 127-2701-801/810 |
| MATL _____ | RELEASE DATE 7-16-07 | SCALE 20:1 | | |
| FINISH _____ | U/M INCH | | | |