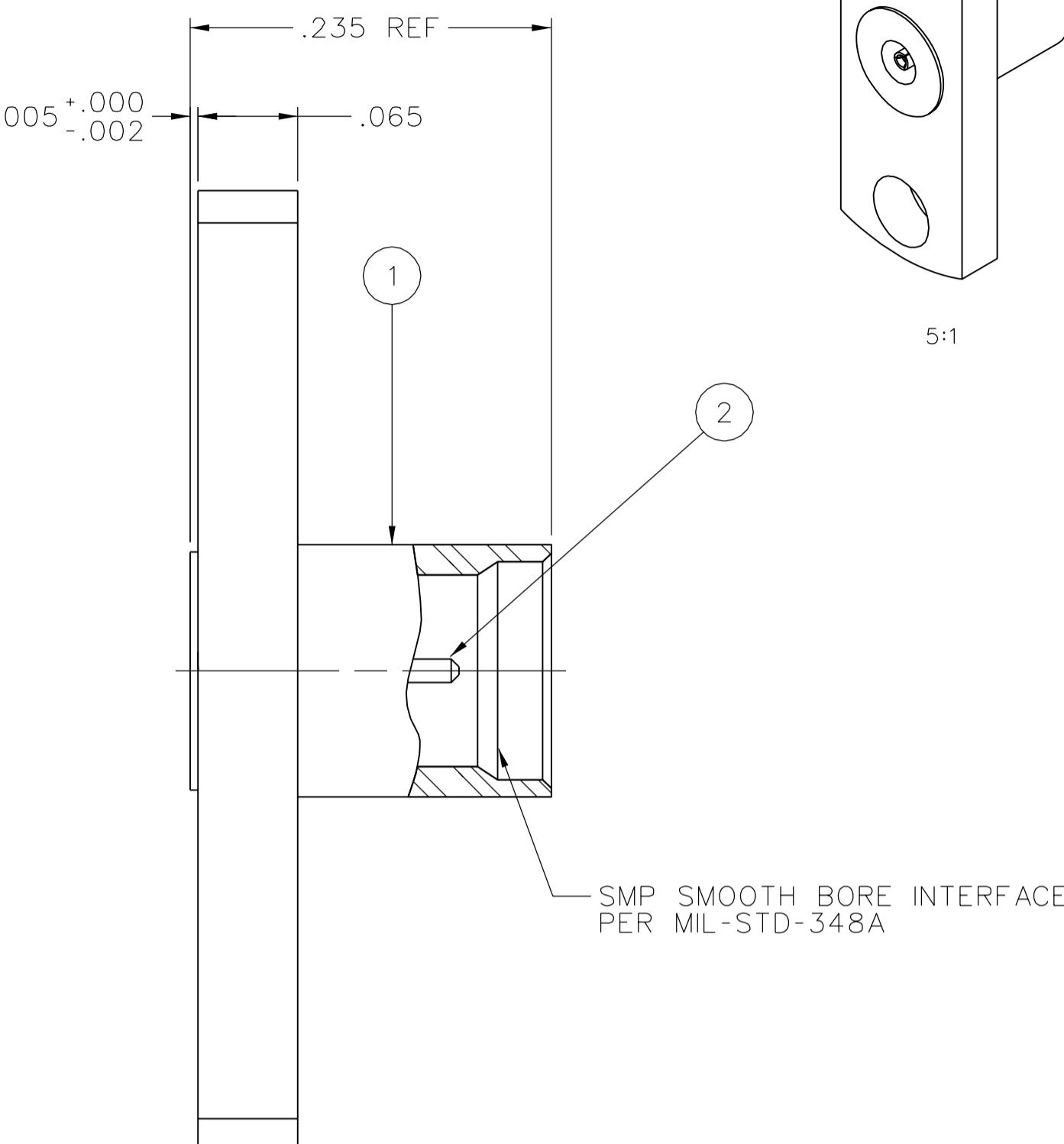
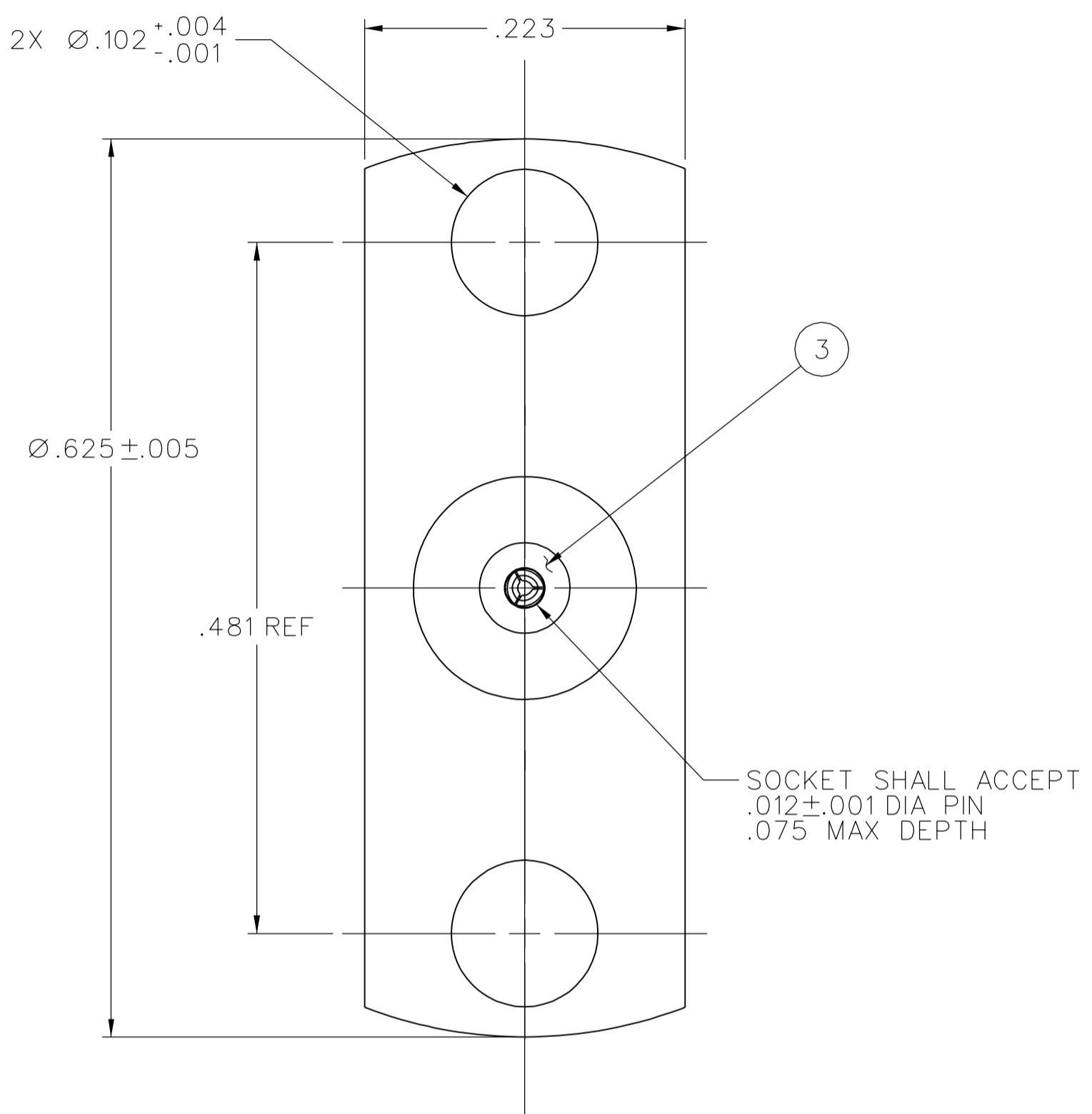


PART NUMBER	ITEM ① BODY	ITEM ② CONTACT	ITEM ③ INSULATOR
127-2701-612	STAINLESS STEEL PASSIVATE	BERYLLIUM COPPER GOLD PL .00005 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN	TEFLON

DRAWING NO. C - 127-2701-611/620			
0 REVISIONS			
ENGINEERING RELEASE			
1	6-20-07	P J M P C	6-21-07 ECN 51096



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

"μ STATION"

COMPANY CONFIDENTIAL

TOLERANCE UNLESS OTHERWISE SPECIFIED		DRAWN BY PAT	DATE 4-4-07
DECIMALS .XX	mm —	CHECKED BY JRK	DATE 6-20-07
.XXX ±.003	—	APPROVED BY PDW	DATE 6-21-07
MATL _____	_____	RELEASE DATE 6-21-07	_____
FINISH _____	_____	U/M INCH 2 OF 2	SCALE 10:1 DRAWING NO. C - 127-2701-611/620



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

SMP SMOOTH BORE
FIELD REPLACEABLE

NOTES:

1. SPECIFICATIONS:

IMPEDENCE: 50 OHMS NOMINAL
FREQUENCY RANGE: 0-18 GHz
VSWR: DEPENDANT UPON APPLICATION, TYPICALLY < 1.15
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

INSERTION LOSS: 0.10 \sqrt{f} (GHz) dB MAX, TESTED AT 10 GHz
CORONA LEVEL: 190 VOLTS MIN AT 70,000 FEET

RF LEAKAGE: -80 dB TYPICAL, TESTED AT 2.5 GHz
RF HIGH POTENTIAL WITHSTANDING VOLTAGE: 325 VRMS MIN AT 4 AND 7 MHz

MECHANICAL:

INTERFACE DESIGN: IN ACCORDANCE WITH MIL-STD-348A, SERIES SMP
ENGAGEMENT FORCE: 2.0 LBS MAX

DIENGAGEMENT FORCE: 0.5 LBS MIN

CONTACT RETENTION: 1.5 LBS MIN AXIAL FORCE

DURABILITY: 1000 CYCLES MIN (SMP INTERFACE ONLY)

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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[127-2701-612](#)