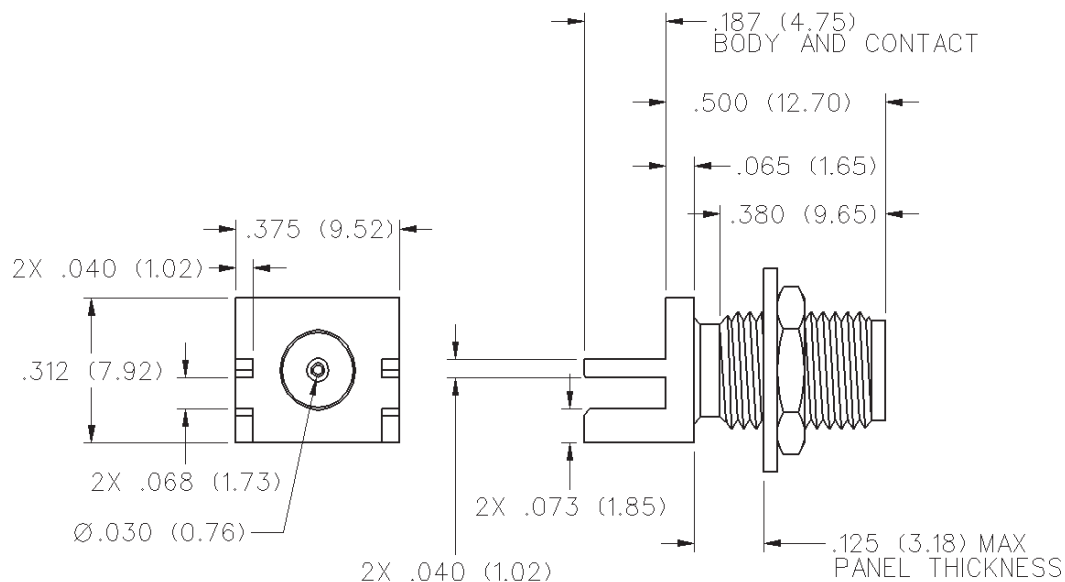
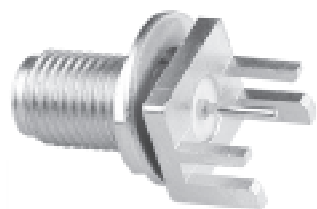


SMA 50 Ohm Reverse Polarity End Launch Bulkhead Jack Receptacle



INCHES (MILLIMETERS)
CUSTOMER DRAWINGS AVAILABLE UPON REQUEST



GOLD PLATED	NICKEL PLATED	BOARD THICKNESS
142-4701-801	142-4701-806	.062 (1.57)

INCHES (MILLIMETERS)
CUSTOMER DRAWINGS AVAILABLE UPON REQUEST

RF High Potential Withstanding Voltage: (Vrms minimum, tested at 4 and 7 MHz)[†]

Connectors for RG-316; LMR-100, 195, 200	500
Connectors for RG-58, RG-142, LMR-240, uncabled receptacles ...	670

MECHANICAL RATINGS

Engagement Design: MIL-C-39012, Series SMA
Engagement/Disengagement Force: 2 inch-pounds maximum

Mating Torque: 7 to 10 inch-pounds

Bulkhead Mounting Nut Torque: 15 inch-pounds

Coupling Proof Torque: 15 inch-pounds minimum

Coupling Nut Retention: 60 pounds minimum

Contact Retention:
6 lbs. minimum axial force (captivated contacts)

4 inch-ounce minimum torque (uncabled receptacles)		
Cable Retention:	Axial Force* (pounds)	Torque (in-oz)

Connectors for RG-316, LMR-100	20	N/A
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Connectors for LMR195, 200	30	N/A
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Connectors for RG-58, LMR-240	40	N/A
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Connectors for RG-142	45	N/A
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*Or cable breaking strength whichever is less.

Durability: 500 cycles minimum

ENVIRONMENTAL RATINGS (Meets or exceeds the applicable paragraph of MIL-C-39012)

Temperature Range: - 65°C to + 165°C

Thermal Shock: MIL-STD-202, Method 107, Condition B

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

Bodies: Brass per QQ-B-626, gold plated* per MIL-G-45204 .00001" min.
or nickel plated per QQ-N-290

Contacts: Male - brass per QQ-B-626, gold plated per MIL-G-45204
00003" min.

Female - beryllium copper per QQ-C-530, gold plated per MIL-G-45204 .00003" min.

Nut Retention Spring: Beryllium copper per QQ-C-533. Unplated
Insulators: PTFE fluorocarbon per ASTM D 1710 and ASTM D 1457 or
Tefzel per ASTM D 3159

Expansion Caps: Brass per QQ-B-613, gold plated per MIL-G-45204
.00001" min. or nickel plated per QQ-N-290

Crimp Sleeves: Copper per WW-T-799 or brass per QQ-B-613, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

Mounting Hardware: Brass per QQ-B-626 or QQ-B-613, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

Technical drawing showing the side front view of a PLUG and JACK assembly. The drawing includes dimensions in inches and millimeters, and callouts for specific features.

PLUG Dimensions:

- Top diameter: .130 (3.30) MIN
- Second diameter: .211 (5.36) MAX
- Third diameter: .015-.045 (0.38-1.14)
- Hex diameter: .312 (7.92)
- Bottom diameter: .066-.076 (1.68-1.93)
- Bottom diameter: .066-.076 (1.68-1.93)
- Internal thread: 1/4-36 UNS-2B
- Internal diameter: $\phi .250$ (6.35) MAX
- Internal diameter: $\phi .180$ (4.06) MAX
- Internal diameter: $\phi .208-.216$ (5.28-5.49)
- Internal diameter: $\phi .181$ (4.60) MIN
- Internal diameter: .000-.010 (0.00-0.25)
- Internal diameter: .000 (0.00) MIN
- Internal diameter: .015-.045 (0.38-1.14)
- Internal diameter: .005 (.013) MAX X 45°

JACK Dimensions:

- Top diameter: .074-.078 (1.88-1.98)
- Second diameter: .075-.085 (1.91-2.16)
- Third diameter: .000-.010 (0.00-0.25)
- Fourth diameter: .000 (0.00) MIN
- Internal thread: 1/4-36 UNS-2A
- Internal diameter: .218 (5.54) MIN
- Internal diameter: .170 (4.32) MIN FULL THREAD
- Internal diameter: .015-.045 (0.38-1.14)
- Internal diameter: .005 (.013) MAX X 45°

Callouts and Notes:

- REFERENCE PLANE
- SEE NOTE 1
- SEE DETAIL
- JCI REFERENCE PLANE

Additional Dimensions:

- .015 (0.38) MIN
- $\phi .0355-.0370$ (0.902-0.940)
- $\phi .015$ (0.38) MAX FLAT
- .185 (4.70)

1. ID OF CONTACT TO MEET VSWR,
CONTACT RESISTANCE AND
INSERTION WITHDRAWAL FORCES
WHEN MATED WITH DIA .0355-
.0370 MALE PIN.

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