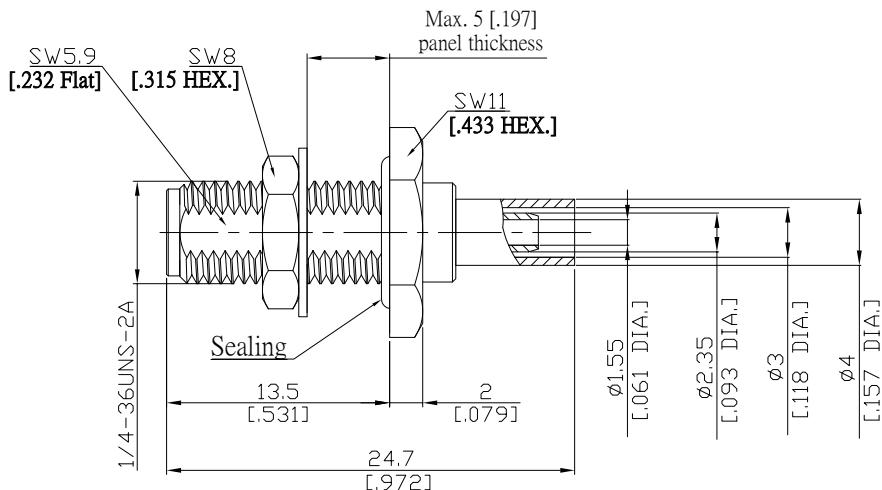


SMA (Female) Straight Bulkhead Cable Crimp Jack DC-6 GHz VSWR 1.25

SMA2CA50-G316E/91



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

According to

IEC 60169-15; MIL-STD-348B/310

Electrical Data

| | |
|--------------------------------|----------------------|
| Impedance | 50 Ω |
| Frequency | DC to 6 GHz |
| VSWR (Return Loss) | ≤ 1.25 (≥ 20.83 dB) |
| Insertion Loss | ≤ 0.05 x √F (GHz) dB |
| Insulation Resistance | ≥ 5 GΩ |
| Center Contact Resistance | ≤ 3 mΩ |
| Outer Contact Resistance | ≤ 2 mΩ |
| Test Voltage (at sea level) | 1000 V rms |
| Working Voltage (at sea level) | 480 V rms |

- Limitations are possible due to the used cable type and manufacturing method -

Material And Plating

| Piece Parts | Material | Plating |
|----------------|------------------|--|
| Centre contact | Beryllium Copper | Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch) |
| Body | Brass | Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch) |
| Insulator | PTFE | |
| Gasket | Silicone rubber | |
| Crimp ferrules | Brass | Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch) |
| Fastening nut | Brass | Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch) |
| Washer | Brass | Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch) |

The facts and figures herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Rev.:-

Date:
19/11/10

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SMA (Female) Straight Bulkhead Cable Crimp Jack
DC-6 GHz VSWR 1.25

SMA2CA50-G316E/91

Mechanical Data

| | |
|-----------------------------------|-------------|
| Coupling mechanisms | Screw-lock |
| Mating Cycles | ≥ 500 |
| Centre contact | Soldered |
| Cable entry | Crimped |
| Center Contact Captivation: axial | ≥ 27 N |
| Weight | N/A |
| Coupling Test Torque | 1.7 Nm max. |
| Recommended Torque | 0.56 Nm |

Environmental Data

| | |
|---------------------|---------------------------------|
| Temperature Range | -65°C to +165°C |
| Thermal shock | MIL-STD-202, Meth. 107, Cond. B |
| Corrosion | MIL-STD-202, Meth. 101, Cond. B |
| Vibration | MIL-STD-202, Meth. 204, Cond. D |
| Shock | MIL-STD-202, Meth. 213, Cond. I |
| Moisture Resistance | MIL-STD-202, Meth. 106 |
| IP Rating | IP67 |
| RoHS | compliant |

Suitable Cables

RG 316/U, RG 174 A/U, RG 188, G 02232, BELDEN 7805

Related Documents

MD19

Packing

Single or 100