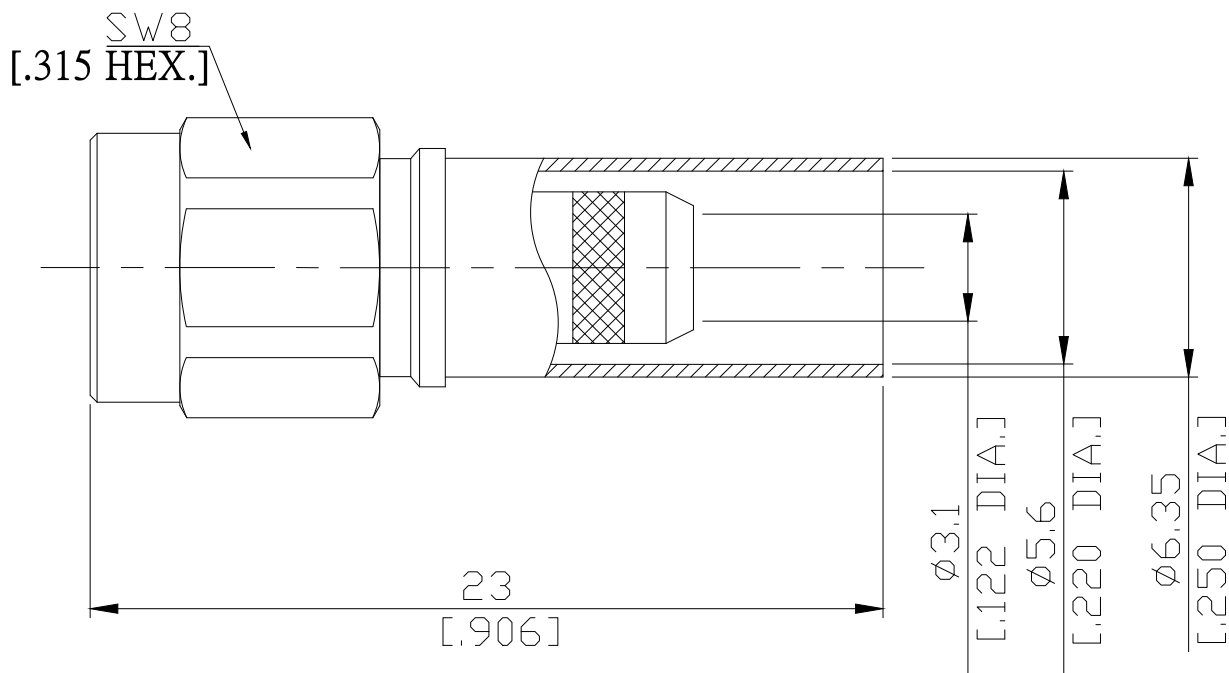


SMA Plug Male Connector Crimp/Solder
Attachment for RG55, RG142, RG223 DC-18GHz VSWR1.20

SMA1C50-G142D / 9XX



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

 $50\ \Omega$

Frequency

DC to 18 GHz

VSWR (Return Loss)

 ≤ 1.20 (≥ 20.83 dB)

Insertion Loss

$$\leq 0.05 \times \sqrt{F \text{ (GHz)}} \text{ dB}$$

Insulation Resistance

 $\geq 5 \text{ G}\Omega$

Center Contact Resistance

 $\leq 3 \text{ m}\Omega$

Outer Contact Resistance

 $\leq 2 \text{ m}\Omega$

Test Voltage

1000 V_{rms}

Working Voltage (at sea level)

480 V rms

Power Handling (at 20 °C, sea level, VSWR 1.0)

 $\leq 200 \text{ W @ } 2 \text{ GHz}$

≥ 100 dB up to 1 GHz

Material And Plating

Connector parts	Material	Plating
Centre contact	Brass	Gold plating, 5 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Stainless Steel	Passivated
Insulator	PTFE	
Coupling Nut	Stainless Steel	Passivated

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.:-

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SMA Plug Male Connector Crimp/Solder
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Mechanical Data

Coupling mechanisms	Screw-lock
Mating Cycles	min. 500
Centre Contact	Soldered
Cable Entry	Crimped
Coupling Test Torque	max. 1.7 Nm
Recommended Torque	0.8 Nm to 1.1 Nm

Environmental Data

Temperature Range	-65°C to +15°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
RoHS	compliant

Suitable Cables

RG55, RG142, RG223

Packing

Single or 100