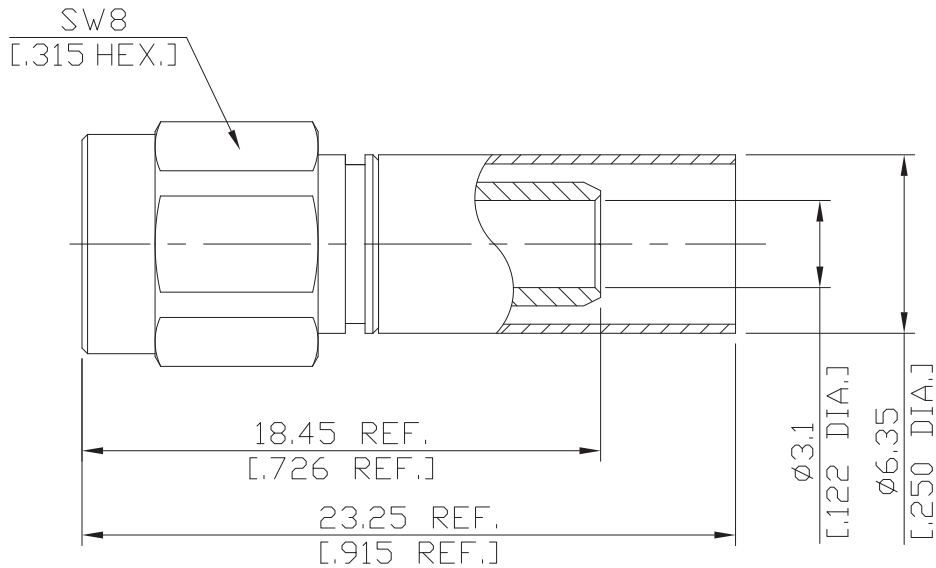


SMA Plug (Male) Straight Connector Crimp / Contact Pin Solder or Crimp Attachment for RG-142, DC-6 GHz, VSWR 1.2

## SMA1C50-G142A / 1XX



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

### Interface

According to IEC 60169-15; CECC 22110; MIL-PRF-39012; MIL-STD-348B/310; EN 122110

### Electrical Data

Impedance	50 Ω
Frequency	DC to 6 GHz
VSWR (Return Loss)	≤ 1.20 (≥ 20.83 dB)
Insertion Loss	≤ 0.04 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
Power handling	≤ 200 W @ 2 GHz
RF Leakage	≥ 100 dB up to 1 GHz

-VSWR in application depends decisive on cable assembly process-

### Material And Plating

Piece Parts	Material	Plating
Centre Contact	Brass	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Stainless Steel	Passivated
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling Nut	Stainless Steel	Passivated
Crimp ferrules	Brass	Copper-Tin-Zinc Alloy

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## SMA1C50-G142A / 1XX

### Mechanical Data

Coupling mechanisms	Screw-On
Mating Cycles	≥ 500
Coupling Nut Retention	≥ 270 N
Center Contact Captivation: axial	≥ 27 N
Coupling Test Torque	max. 1.70 Nm
Recommended Torque	0.8 Nm to 1.1 Nm
Centre contact	Soldered or Crimped
Cable entry	Crimped

### Environmental Data

Temperature Range	-65°C to +165°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition D
Shock	MIL-STD-202, Method 213, Condition I
Moisture Resistance	MIL-STD-202, Method 106
RoHS	compliant

### Suitable Cable

RG-142, RG-223, RG-400

### Packing

Single or 100