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SEARCH



SMA (Precision)



PART NUMBER: 050-651-0000310

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Please use Customer Drawing for design activity: line art and other pictures are general representations of product dimensions.



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Product Family	RF
Product Group	RF - SMA (Precision)
Market Application	Military
Component Type	Printed Circuit Receptacles
Gender	Receptacle
Mounting Style	Straight PCB
Engagement (Insertion) Force	Torque: 0.23 Nm (2 in. lbs.) maximum
Packaging Type	Each
Plating	Center contact: Gold. Other metal parts: Gold or passivated, as specified, to meet the finish and corrosion requirements of MIL-C-39012.
Product Description	Straight Jack

Cable Retention	When properly assembled to the compatible single braided coaxial cable, the retention is equal to the breaking strength of the cable.
Connector Durability	500 mating cycles minimum
Contact Current Rating	2.0 A DC maximum
Coupling Nut Retention	267 N (60 lbs.) minimum
Corona Level	Connectors used with RG316/U series cable = 190 V @ 21 km (70k feet) minimum
Corrosion (salt spray)	MIL-STD-202, Method 101, test condition B, 5% salt solution
Insertion Loss	0.06 x SQRT (frequency = GHz) tested at 6 GHz
Insulation Resistance	5000 M ohms minimum
Locknut Torque	1.4 to 1.7 Nm (12 to 15 in. lbs.) minimum
Mating Torque	0.8 to 1.1 Nm (7 to 10 in. lbs.)
Moisture Resistance	MIL-STD-202. Method 106. No measurements at high humidity. Insulation resistance shall be 200 M ohms minimum within five minutes after removal from humidity.
RF Leakage	-60 dB minimum @ 2-3 GHz
Shock	MIL-STD-202, Method 213, test condition I, (100 G` s)
Temperature Rating	-65°C to 165°C
Thermal Shock	MIL-STD-202, Method 107, test condition B.
Vibration, High Frequency	MIL-STD-202, Method 204, test condition D (20 G` s)
Impedance	50 ohms
Frequency Range 1	0 to 18.0 GHz
Contact Resistance	Center contact = 3.0 m ohms maximum initial. 4.0 m ohms maximum after environment. Outer contact = 2.0 m ohms maximum initial. 2.0 m ohms maximum after environment. Braid to body = 0.5 m ohms maximum
Engagement Design	MIL-C-39012, Series SMA
Material	Body, body components: Non-magnetic stainless steel and beryllium copper. Female contacts: Beryllium copper. Insulators: PTFE. Crimp Ferrule: Annealed copper alloy. Gaskets: Silicone rubber.

Contact Retention

26.7 N (6 lbs.) minimum axial force

Mounting Information

Mounting Plan D

For more information

Please Contact Cannon Sales Department .

Mounting Dimension A

5,08 (.200)

Mounting Dimension B

4X Ø1,70 (.067) minimum

Mounting Dimension C

1X Ø1,70 (.067) minimum

Footnote

Dimension are shown in mm (inch). Dimensions subject to change.



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