CA-SMSF

SMA Male to SMA Female Adapter

Product Classification

Product Type	Adapter

General Specifications

Body Style	Straight
Inner Contact Plating	Gold
Interface	SMA Male
Interface 2	SMA Female
Mounting Angle	Straight
Outer Contact Plating	Trimetal
Pressurizable	No

Dimensions

Width	9.15 mm | 0.36 in
Length	18.47 mm | 0.727 in
Diameter	7.92 mm | 0.312 in

Outline Drawing

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MATES TO MIL-STD-348, 310.1 OR EQUIVALENT
0.250-36UNS-2A THREADS
7.9mm HEX FLATS
(ø9.2mm)
5.5mm WRENCH FLATS
(18.5mm)
MATES TO MIL-STD-348, 310.2 OR EQUIVALENT
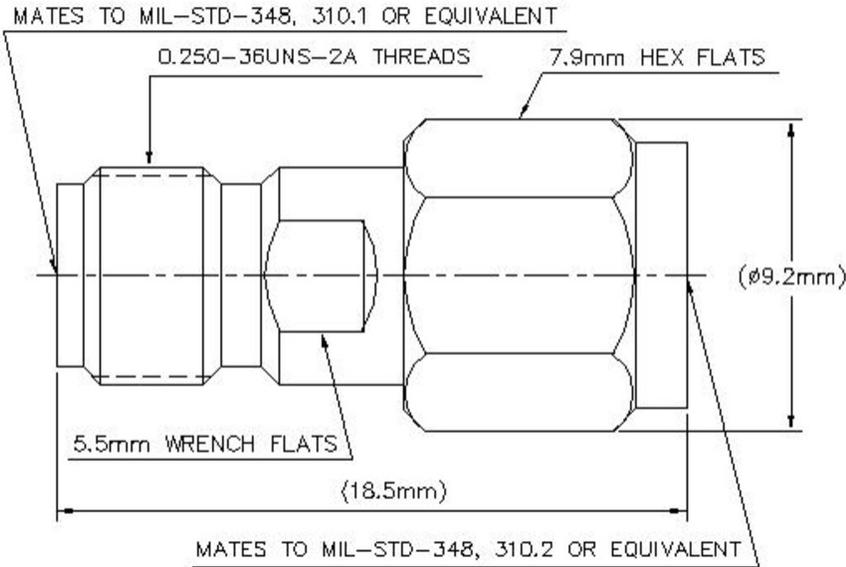
Electrical Specifications

Average Power at Frequency	100.0 W @ 900 MHz
Connector Impedance	50 ohm
dc Test Voltage	1000 V
Inner Contact Resistance, maximum	3 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 6000 MHz
Outer Contact Resistance, maximum	2.5 mOhm
Peak Power, maximum	5 kW
RF Operating Voltage, maximum (vrms)	500 V

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–3000 MHz	1.03	36.61
3000–6000 MHz	1.04	34.16

Mechanical Specifications

Coupling Nut Proof Torque	1.7 N-m	15.046 in lb
Coupling Nut Proof Torque Method	IEC 61169-15:9.3.6
Coupling Nut Retention Force	180 N	40.466 lbf

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Coupling Nut Retention Force Method	IEC 61169-15:9.3.11
Insertion Force	22 N | 4.946 lbf
Insertion Force Method	IEC 61169-15:9.3.5
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-15:9.5
Mechanical Shock Test Method	IEC 60068-2-27

Environmental Specifications

Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-65 °C to +125 °C (-85 °F to +257 °F)
Attenuation, Ambient Temperature	20 °C | 68 °F
Average Power, Ambient Temperature	40 °C | 104 °F
Average Power, Inner Conductor Temperature	100 °C | 212 °F
Climatic Sequence Test Method	IEC 60068-1
Corrosion Test Method	IEC 60068-2-11
Damp Heat Steady State Test Method	IEC 60068-2-3
Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6

Packaging and Weights

Weight, net	5 g | 0.011 lb

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

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