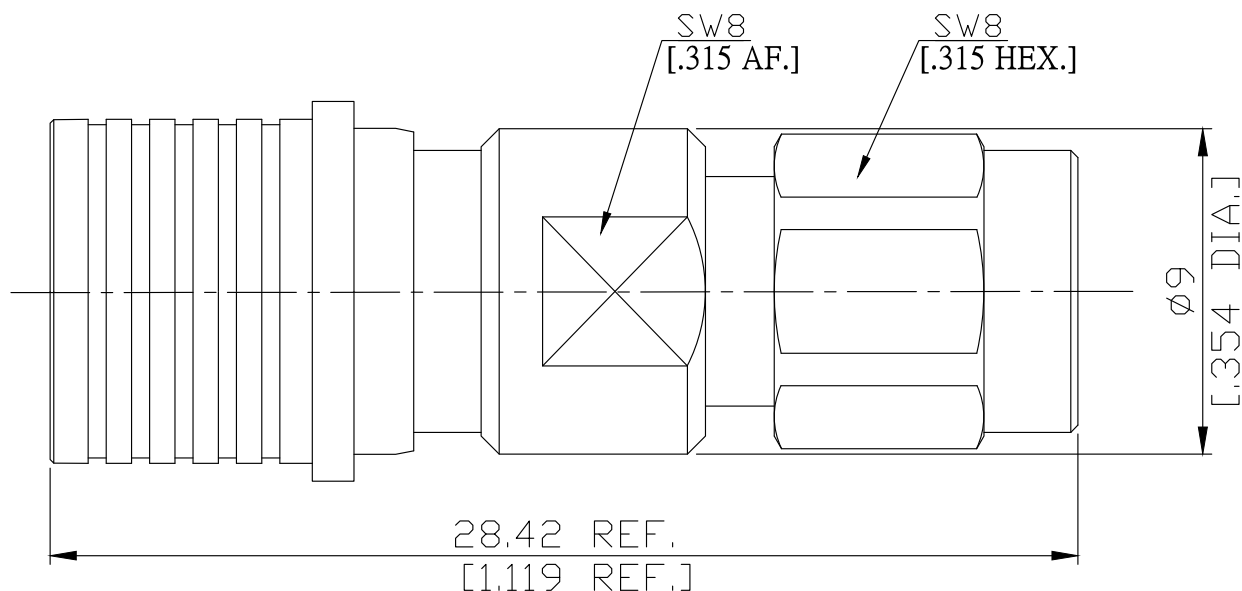


QMA Plug (Male) to SMA Plug (Male) Adapter
DC-18GHz VSWR 1.20

AD-QA1A15A / 944-944



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

According to

QMA Side
IEC 61169-50

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

Electrical Data

Impedance

50 Ω

Frequency

DC to 18 GHz

VSWR (Return Loss)

≤ 1.20 (≥ 20.83 dB)

Insertion Loss

≤ 0.05 x √F (GHz) dB

Insulation Resistance

≥ 5 GΩ

Center Contact Resistance

≤ 3.0 mΩ, QMA Side

≤ 3.0 mΩ, SMA Side

Outer Contact Resistance

≤ 2.5 mΩ, QMA Side

≤ 2.0 mΩ, SMA Side

Test Voltage (at sea level)

1000 V rms

Working Voltage (at sea level)

480 V rms

Material And Plating

| Piece Parts (QMA) | Material | Plating |
|-------------------|------------------|--|
| Centre Contact | Beryllium Copper | Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch) |
| Body | Brass | Copper-Tin-Zinc Alloy |
| Insulator | PTFE | |
| Coupling nut | Brass | Copper-Tin-Zinc Alloy |
| Piece Parts (SMA) | Material | Plating |
| Centre Contact | Beryllium Copper | Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch) |
| Body | Brass | Copper-Tin-Zinc Alloy |
| Insulator | PTFE | |
| Coupling nut | Brass | Copper-Tin-Zinc Alloy |

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:
6/23/2019

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Page
1/2

QMA Plug (Male) to SMA Plug (Male) Adapter
DC-18GHz VSWR 1.20

AD-QA1A15A / 944-944

Mechanical Data

| | QMA Side | SMA Side |
|-----------------------------------|------------|------------|
| Coupling mechanisms | Quick-lock | Screw-lock |
| Mating Cycles | ≥ 100 | ≥ 500 |
| Coupling Nut Retention | N/A | N/A |
| Center Contact Captivation: axial | ≥ 20 N | ≥ 20 N |
| Weight | N/A | |
| Coupling Test Torque | N/A | 0.5 Nm |
| Recommended Torque | N/A | 0.56 Nm |

Environmental Data

| | |
|-------------------------|--------------------------------|
| Temperature Range | -40°C to +85°C |
| Thermal shock | IEC 60169-1 16.4 (-40 / +85°C) |
| Corrosion | IEC 60169-1 16.7 (48 hours) |
| Vibration | IEC 60068-2-64 (random) |
| Damp heat, steady state | IEC 60169-1 16.3 (96 hours) |
| RoHS | compliant |

Packing

Single or 100