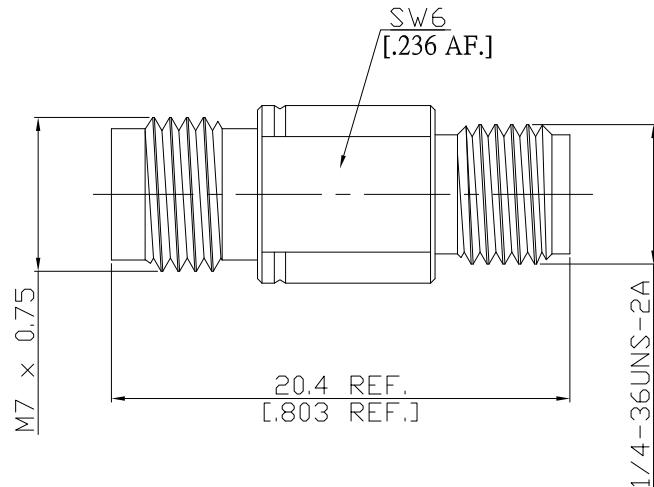


2.4mm Jack (Female) to Precision SMA Jack (Female) Adapter
DC-27GHz VSWR1.15

AD-Q2PCA25A / H1-H1



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

Mechanically compatible with
According to2.4mm Side
1.85mm
IEC 61169-40, IEEE Std 287Precision SMA Side
2.92mm and 3.5mm
IEC 60169-15, MIL-STD-348B/310

Electrical Data

| | |
|---|----------------------|
| Impedance | 50 Ω |
| Frequency | DC to 27 GHz |
| VSWR (Return Loss) | ≤ 1.15 (≥ 23.13 dB) |
| Insertion Loss | ≤ 0.05 x √F (GHz) dB |
| Insulation Resistance | ≥ 5 GΩ |
| Center Contact Resistance 2.4mm | ≤ 4 mΩ |
| Outer Contact Resistance 2.4mm | ≤ 2.5 mΩ |
| Center Contact Resistance Precision SMA | ≤ 3 mΩ |
| Outer Contact Resistance Precision SMA | ≤ 2 mΩ |
| Test Voltage (at sea level) | 500 V rms |
| Working Voltage (at sea level) | 150 V rms |
| RF Leakage | ≥ 100 dB up to 1 GHz |

Material And Plating

| Piece Parts (2.4mm) | Material | Plating |
|-----------------------------|-----------------|--|
| Centre Contact | Phosphor Bronze | Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch) |
| Body | Brass | Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch) |
| Insulator | PEI | |
| Piece Parts (Precision SMA) | Material | Plating |
| Centre Contact | Phosphor Bronze | Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch) |
| Body | Brass | Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch) |
| Insulator | PTFE | |

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

Rosnol RF/Microwave Technology Co., Ltd.

www.rosnol.com; info@rosnol.com

Phone: +886-3-463-5095 / Fax: +886-3-463-5952

N-CAGE Code: SFKK0 / ISO9001 Certified

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DC-27GHz VSWR1.15

AD-Q2PCA25A / H1-H1

Mechanical Data

| | | |
|----------------------------|--------------|--------------------|
| Coupling mechanisms | 2.4mm Side | Precision SMA Side |
| Mating Cycles | Screw-lock | Screw-lock |
| Coupling Nut Retention | ≥ 500 | ≥ 500 |
| Center Contact Captivation | ≥ 270 N | ≥ 270 N |
| Coupling Test Torque | ≥ 20 N | ≥ 20 N |
| Recommended Torque | 1.65 Nm max. | 1.70 Nm max. |
| | 0.9 Nm | 0.9 Nm |

Environmental Data

| | |
|---------------------|--------------------------------------|
| Temperature Range | -55°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 |

Packing

| | |
|----------|--------|
| Standard | Single |
| Weight | N/A |