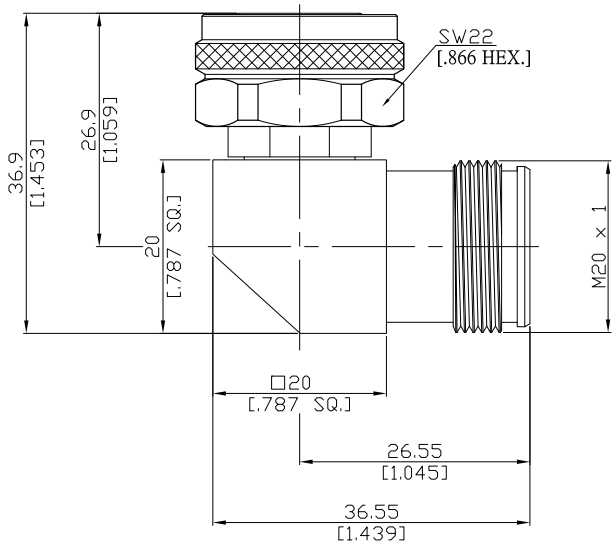
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

# 4.3-10 Plug (Male) to 4.3-10 Jack (Female) Mitered Right Angle Adapter DC-6GHz VSWR1.15 PIM: ≥165 dBc (2 x 43 dBm)

# ASL-43101431025A / H44-H4




All dimensions are in mm [inch]
Tolerances according to DIN ISO 2768-mH

## Interface

| | |
|---|---|
| According to | IEC 61169-54 |

## Electrical Data

| | |
|---|---|
| Impedance | 50 Ω |
| Frequency | DC to 6 GHz |
| VSWR (Return Loss) | ≤ 1.15 (≥ 23.13 dB) |
| Insertion Loss | ≤ 0.05 x √F (GHz) dB |
| Insulation Resistance | ≥ 5 GΩ |
| Center Contact Resistance | ≤ 1.0 mΩ |
| Outer Contact Resistance | ≤ 1.0 mΩ |
| Test Voltage (at sea level) | 2500 V rms |
| Working Voltage (at sea level) | 500 V rms |
| RF Leakage | ≥ 110 dB @ DC to 6 GHz<br>for tool tightened plugs |
| Power Handling | 500 W @ 2.0 GHz |
| Intermodulation (3rd order) | ≥ 165 dBc (2 x 43 dBm) |

## Material And Plating

| Piece Parts (4.3-10) | Material | Plating |
|---|---|---|
| Centre Contact | Phosphor Bronze | Gold plating, 3 μinch<br>(Non-magnetic nickel-phosphorus underplating, 80 μinch) |
| Body | Brass | Copper-Tin-Zinc Alloy |
| Insulator | PTFE | |
| Gasket | Silicone Rubber | |
| Coupling Nut | Brass | Copper-Tin-Zinc Alloy |

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|---|---|---|
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| Insulator | PTFE | |





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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## Mechanical Data

| | |
|---|---|
| Coupling mechanisms | Screw-lock |
| Mating Cycles | ≥ 500 |
| Center Contact Captivation: axial | ≥ 30 N |
| Center Contact Retention Force | 1.5 - 20 N |
| Outer Contact Retention Force | 4 - 35 N |
| Engagement Force | Typ. 100 N |
| Disengagement Force | Typ. 80 N |
| Recommended Torque | 5 Nm |

## Environmental Data

| | |
|---|---|
| Temperature Range | -60°C to +165°C |
| Thermal shock | IEC 60169-1, Sub-clause 16.4 |
| Corrosion | ISO 21207 method B |
| Vibration | IEC 61169-1 9.3.3 and IEC 60068-2-64 |
| Shock | IEC 61169-1 9.3.14 |
| Degree of Protection (mated pair) | IEC 60529, IP68 1h / 25m |
| RoHS | compliant |

## Packing

Single or 100





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