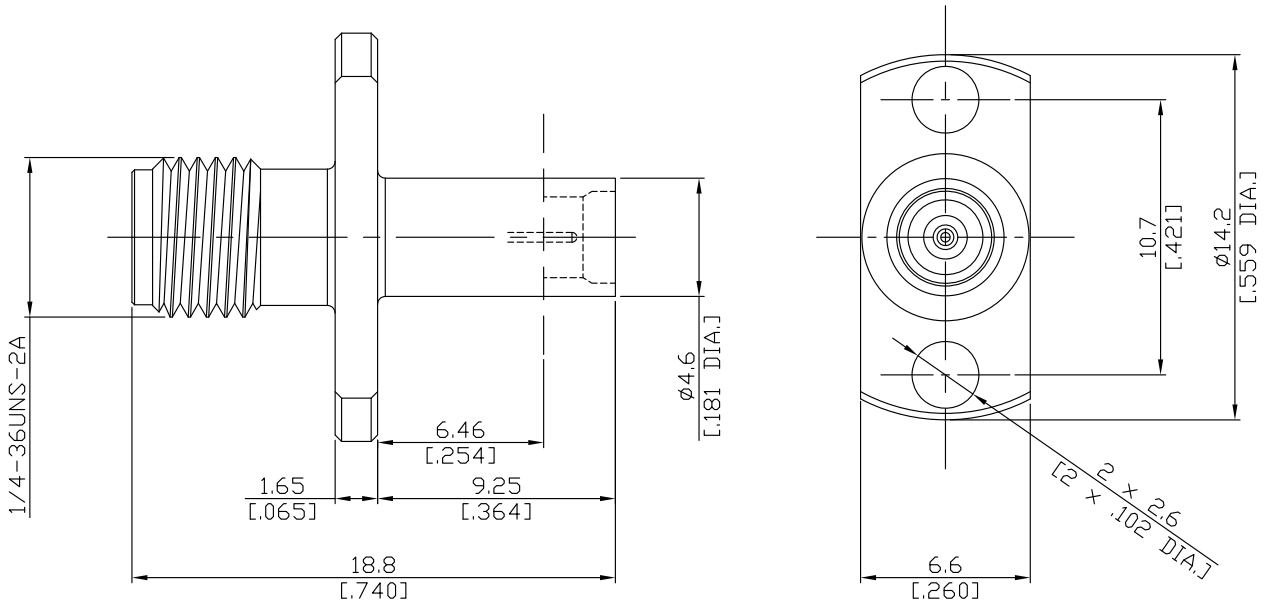
ROSNOL®
RF/Microwave Interconnect

# Technical Data Sheet

## SMA jack (female)/SMP Catchers mitt plug (male) Panel 2 Hole Flange Mount Adapter, DC-18 GHz, VSWR ≤ 1.14

# AD-A2PS15A-PT / 9X-9X




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

## Interface

| | |
|---|---|
| Precision SMA according to | IEC 60169-15; MIL-STD-348B/310 |
| SMP according to | MIL-STD-348B/326 |

## Electrical Data

| | | |
|---|---|---|
| Impedance | 50 Ω | |
| Frequency | DC to 18 GHz | |
| VSWR (Return Loss) | ≤ 1.14 (≥ 23.7 dB) | |
| Insertion loss | ≤ 0.3 x √F (GHz) dB | |
| Insulation resistance | ≥ 5 GΩ | |
| Center contact resistance | ≤ 6.0 mΩ, SMP side; | ≤ 3 mΩ, SMA side |
| Outer contact resistance | ≤ 2.0 mΩ, SMP side; | ≤ 2 mΩ, SMA side |
| Test voltage | 500 V rms | |
| Working voltage | 335 V rms | |
| Contact Current | 1.2A DC max. | |

## Material And Plating

| Piece Parts (SMP) | Material | Plating |
|---|---|---|
| Centre contact | Beryllium Copper | Gold plating, 3 µinch<br>(Non-magnetic nickel-phosphorus underplating, 80 µinch) |
| Body | Stainless Steel | Passivated |
| Insulator | PTFE | |

| Piece Parts (SMA) | Material | Plating |
|---|---|---|
| Centre contact | Beryllium Copper | Gold plating, 3 µinch<br>(Non-magnetic nickel-phosphorus underplating, 80 µinch) |
| Body | Stainless Steel | Passivated |
| Insulator | PTFE | |





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## Mechanical Data

| | SMP side | SMA side Screw- |
|---|---|---|
| Coupling mechanisms | Snap-On | lock |
| Mating cycles | min. 1000 | min. 500 |
| Center contact captivation: axial | ≥ 7 N | ≥ 27 N |
| Engagement force | | N/A |
| - Catchers mitt | ≤ 9 N | |
| Disengagement force | | N/A |
| - Catchers mitt | ≥ 2.2 N | |
| Coupling test torque | N/A | max. 1.7 Nm |
| Recommended torque | N/A | 0.8 Nm to 1.1 Nm |

## Environmental Data

| | |
|---|---|
| Temperature Range | -65°C to +155°C |
| Thermal shock | MIL-STD-202, Method 213, Condition I |
| Vibration | MIL-STD-202, Method 204, Condition D |
| Corroaion | MIL-STD-202, Method 101, Condition B |
| Moisture resistance | MIL-STD-202, Method 106 |
| RoHS | compliant |

## Packing

Singleor 100





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