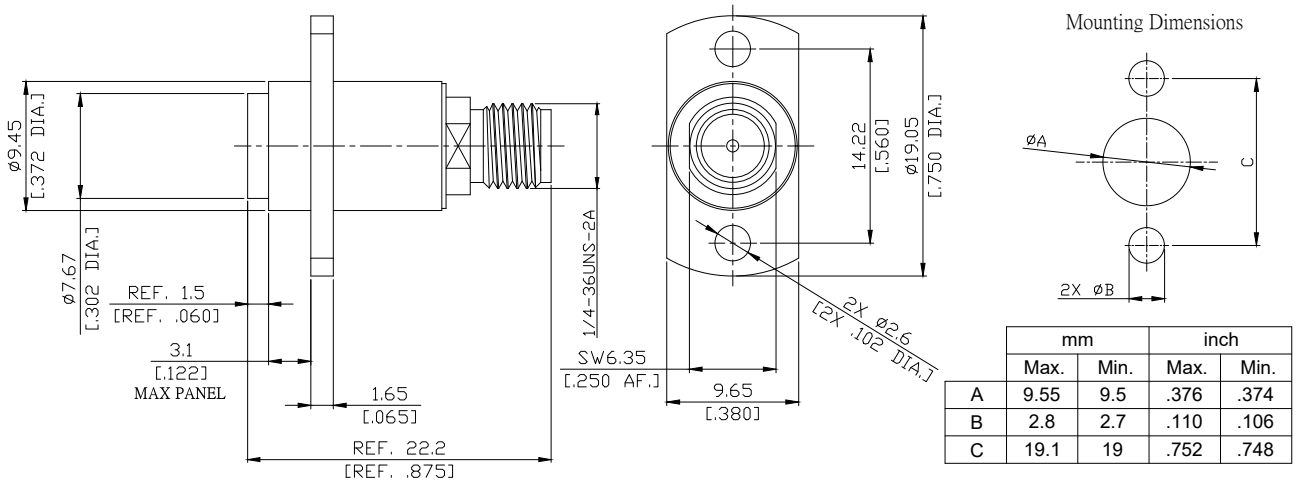
ROSNOL
RF/Microwave Interconnect

# Technical Data Sheet

## BMA Jack (Female) to SMA Jack (Female)
## 2-Hole Panel Adapter Slide-On Adapter, DC-18 GHz, VSWR ≤ 1.25

# AD-A2BA25B-PT / 9X-9XX




| | mm | | inch | |
|---|---|---|---|---|
| | Max. | Min. | Max. | Min. |
| A | 9.55 | 9.5 | .376 | .374 |
| B | 2.8 | 2.7 | .110 | .106 |
| C | 19.1 | 19 | .752 | .748 |

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

## Interface

| | |
|---|---|
| SMA according to | IEC 60169-15; MIL-STD-348B/310 |
| BMA according to | IEC 61169-33; MIL-STD-348A/321 |

## Electrical Data

| | |
|---|---|
| Impedance | 50 Ω |
| Frequency | DC to 18 GHz |
| VSWR (Return Loss) | ≤ 1.25 (≥ 19.08 dB) |
| Insertion loss | ≤ 0.05 dB x √F (GHz) dB |
| Insulation Resistance | ≥ 5 GΩ |
| Center Contact Resistance | ≤ 4 mΩ |
| Outer Contact Resistance | ≤ 2 mΩ |
| Withstanding Voltage (at sea level; min.) | 1000 V rms |
| RF High Potential (at sea level; min. @ 5 MHz) | 670 V rms |
| RF Leakage (min.) | -60 dB @ 2.3 GHz |

## Material And Plating

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





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## Mechanical Data

| | SMA side | BMA side |
|---|---|---|
| Coupling mechanisms | Screw-lock | Slide-On |
| Mating cycles | ≥ 500 | ≥ 500 |
| Center Contact Captivation: axial | ≥ 6 lbs | ≥ 6 lbs |
| Coupling test torque | 1.70 Nm | N/A |
| Recommended torque | 0.70 Nm to 1.10 Nm | N/A |

## Environmental Data

| | |
|---|---|
| Temperature Range | -65°C to +165°C |
| Thermal Shock | MIL-STD-202, Meth. 107, Cond. C |
| Shock | MIL-STD-202, Meth. 213, Cond. I |
| Corrosion | MIL-STD-202, Meth. 101, Cond. B (salt spray: 5%) |
| Vibration | MIL-STD-202, Meth. 204, Cond. D |
| Moisture Resistance | MIL-STD-202, Meth. 106 |
| RoHS | compliant |

## Packing

Singleor 100





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