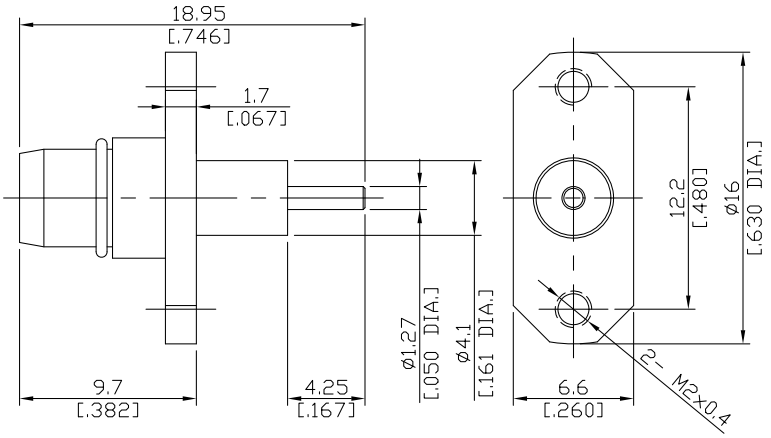
ROSNOL®
RF/Microwave Interconnect

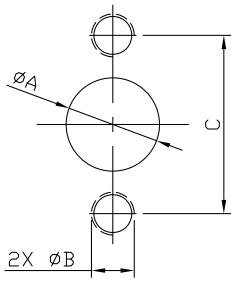
# Technical Data Sheet

## BMA Plug (Male) Slide-On Panel Connector Solder Attachment
## 2 Hole Flange Mount Stub Terminal, 12.2mm [.480] Hole Spacing DC-22 GHz VSWR1.25

# BMA1GTA50-1895A-M2 / 9X




Mounting Dimension




| | mm | | inch | |
|---|---|---|---|---|
| | Max. | Min. | Max. | Min. |
| A | 4.2 | 4.1 | .165 | .161 |
| B | M2 x 0.4 | | | |
| C | 12.22 | | .481 | |

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

## Interface

| | |
|---|---|
| According to | IEC 61169-33; MIL-STD-348B/321 |

## Electrical Data

| | |
|---|---|
| Impedance | 50± 2 Ω |
| Frequency | DC to 22 GHz |
| VSWR (Return loss) | ≤ 1.25 (≥ 19.08dB) |
| Insertion loss | ≤ 0.07 x √F (GHz) dB |
| Insulation resistance | ≥ 5 GΩ |
| Test voltage (at sea level) | 1000 V rms |
| Working voltage (at sea level) | 400 V rms |
| RF-leakage | ≥ 85 dB up to 1 GHz |

-VSWR in application depends decisive on PCB layout or cavity design-

## Material And Plating

| Piece Parts | Material | Plating |
|---|---|---|
| Centre contact | Beryllium Copper | Gold plating<br>(Non-magnetic nickel-phosphorus underplating) |
| Body | Stainless Steel | Passivated |
| Insulator | PTFE | |
| Gasket | Silicone Rubber | |

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.



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| Mechanical Data | |
|---|---|
| Coupling mechanisms | Slide-on |
| Mating cycles | ≥ 1000 |
| Center contact captivation | ≥ 27 N |
| Engagement force | ≤ 13.5 N |
| Disengagement force | ≥ 2 N |
| Centre Contact | Soldered |
| Terminal Type | Stub |
| Captivated Type | Mechanical |
| **Environmental Data** | |
| Temperature Range | -65°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** | |
| | Single or 100 |

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