

# SMA Male Straight Solder Connector for RG-402 Cable

SKU: ACC-PT-00389  
 MPN: SA1-S-402  
 Barcode: 9337692004957

## Description

SMA solder connectors are used within high performance radio communications systems, such as in 4G and 5G cellular, microwave, mmWave, and aerospace applications.

This connector is used to terminate Semi-Flexible and Semi-Rigid 0.141" cable types such as RG-402, where both the inner conductor and outer braid are soldered to the connector.

As a low-PIM design the connector uses ternary alloys and silver plating to achieve very low VSWR under 3 GHz, and a modest < 1.3:1 VSWR up to 6 GHz.

This SMA Male coaxial connector is used in high performance and general-precision systems up to 6 GHz. Termination of semi-flexible cables, particularly those operating to 6 GHz must be made with great care and precision.

[Read More](#)

[RF Connector Interface](#)



| RF Interface | Body Shape | Mounting     |
|--------------|------------|--------------|
| SMA Male     | Straight   | Free Hanging |

## RF Specification

Powertec



Powertec is a wireless technology manufacturer and systems integrator based in Australia. Operating since 1995, Powertec has grown to become the leading wireless technology distributor in its region, and a leading Infratech systems developer. Supporting over 1500 partners the company provides procurement, design, project management, and support services across Australia, New Zealand, Pacific ...

|                  |       |                           |                             |
|------------------|-------|---------------------------|-----------------------------|
| Start Frequency: | 0 GHz | Input Impedance:          | 50                          |
| Stop Frequency:  | 6 GHz | Inner Contact Resistance: | $\leq 1 \text{ m}\Omega$    |
|                  |       | Insulation Resistance:    | $\geq 5000 \text{ m}\Omega$ |
|                  |       | Outer Contact Resistance: | $\leq 1 \text{ m}\Omega$    |
|                  |       | RF Operating Voltage:     | $\leq 260 \text{ Vrms}$     |

VSWR Measurement

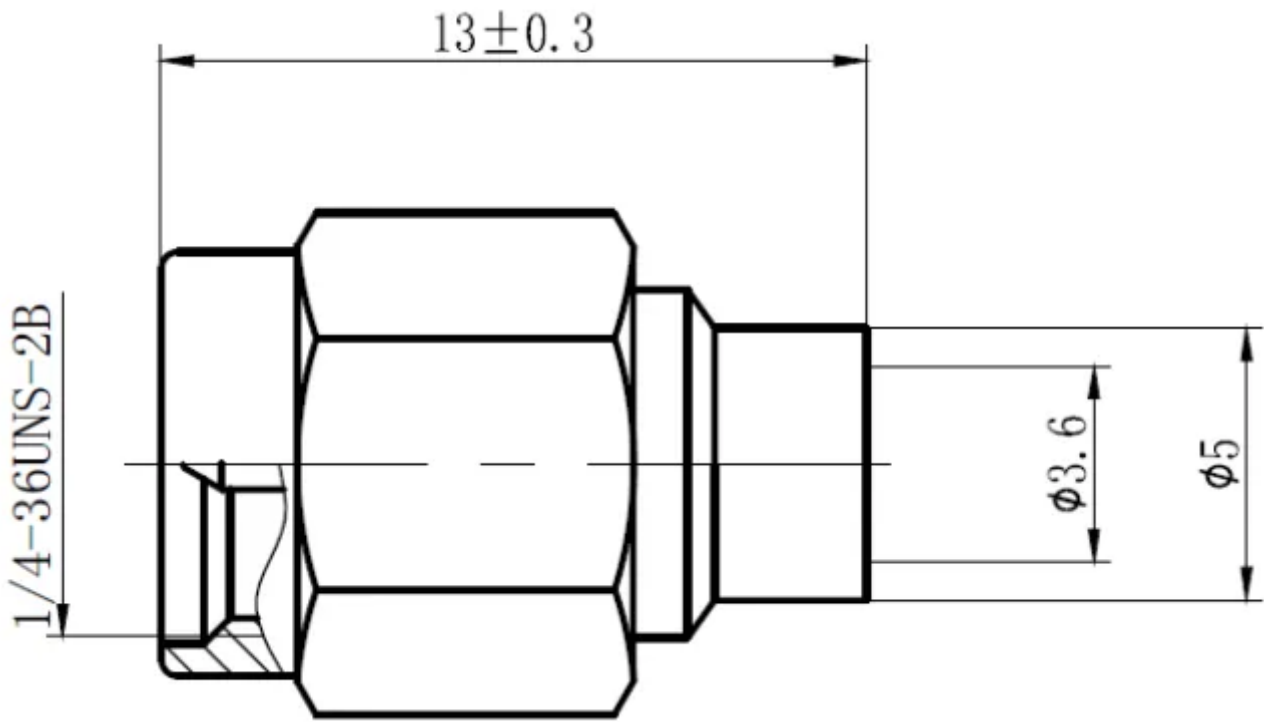
| Frequency | VSWR         |
|-----------|--------------|
| 6000 MHz  | $\leq 1.2:1$ |

## Physical Specification

|                            |                             |                             |                              |
|----------------------------|-----------------------------|-----------------------------|------------------------------|
| Cable Group:               | RG-402                      | Conductor Attachment:       | Cable, Solder                |
| Body Material:             | Brass                       | Contact Material:           | Brass                        |
| Body Plating:              | Gold                        | Contact Plating:            | Gold                         |
| Insulator Material:        | PTFE / Teflon               | Min. Operating Temperature: | $-65 \text{ }^\circ\text{C}$ |
| Dimensions:                | 13 × 7.8 × 7.8              | Max. Operating Temperature: | 165 °C                       |
| Weight:                    | 3 g                         | Mating Cycles:              | > 500                        |
| Compliance/Certifications: | ISO 9001 Quality Management |                             |                              |

RoHS

Drawing



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