SMA







50Ω	DC - 18 GHz DC - 27 GHz

SMA HERMETIC

Hermetic connectors are required to maintain a pressurized or vacuum environment inside a micro-electronic package. Radiall offers 3 types of hermetic connectors:

1. FIELD REPLACEABLE HERMETIC RECEPTACLES WITH SEPARATE GLASS BEAD

(leakage rate below 10^{-8} atm.cm^3/sec)

The hermeticity level is guaranteed by the glass bead soldered into the package. A large selection of glass beads is available from dia 0.3 to 0.5 mm. They are usually ordered separately from the receptacle. The receptacle can be removed (field replaceable) from the package for maintenance without any risk of leakage. The field replaceable receptacle is recommended when a high number of matings is required.

2. HERMETIC RECEPTACLES WITH INTEGRATED GLASS BEAD

(leakage rate below 10^{-8} atm.cm^3/sec)

The glass bead is already in place inside the receptacle, hermeticity is guaranteed by a solder joint between the receptacle and the package or with a metallic compression gasket. Screw-on receptacle with metallic compression gasket offers superior climatic resistance: -65 °C +200 °C.

3. HERMETIC RECEPTACLES WITHOUT GLASS BEAD

(leakage rate below 10^{-6} atm/cm^3/sec)

A good hermeticity level is obtained with a metallic gasket at a cost advantage compared to glass beads.

GENERAL

- Sub-miniature coaxial connectors
- Screw-on coupling
- High RF performance
- 2 plating options:
  - Passivated stainless steel
  - Gold plated
- Wide hermetically sealed range
- Space qualified range of products
- SMA extended frequency 27 GHz

APPLICABLE STANDARDS

- MIL-C-39012
- EC 169-1
- CECC 22110
- CECC 22111 - 801 to 808
- BS 9210 N006

SPACE QUALIFIED/APPROVALS

(For space range)

- SCC 3402 (ESA)
- CNES

APPLICATIONS

- Civil & Military Telecommunications
- Civil & Military Aeronautics
- Military equipment
- Space
- Measurement systems