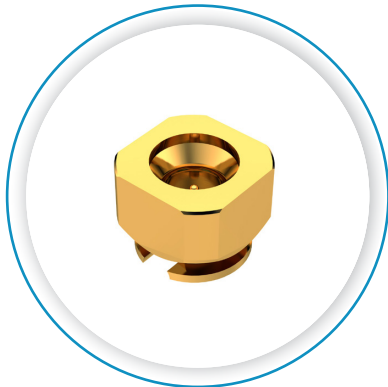
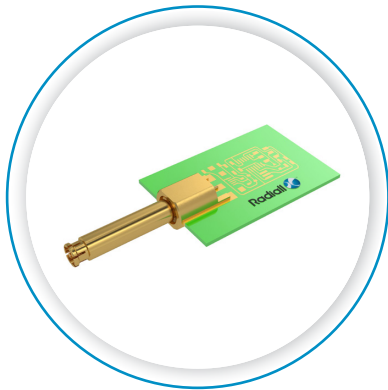




# SMPW

Subminiature RF Connector



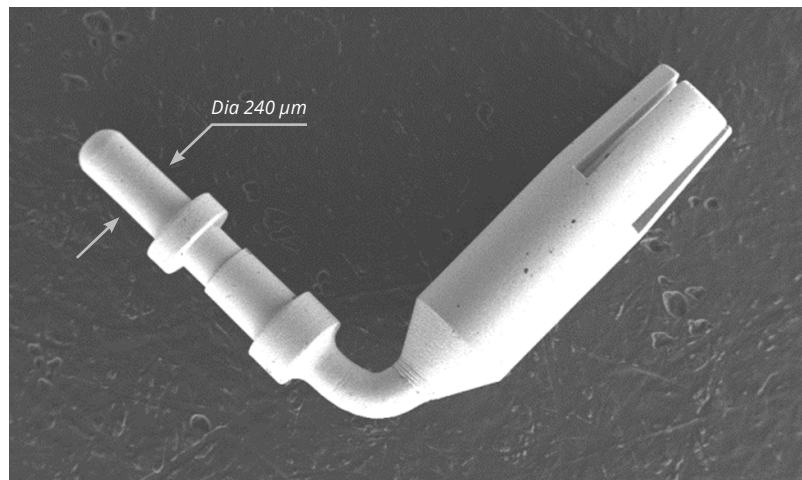
*Leader in micro-machining, Radiall's new subminiature coaxial connector SMPW providing higher performance up to 100 GHz.*

Leveraging extensive knowledge in micro-machining, high-performance design and measurement capabilities, Radiall is proud to introduce SMPW.

Radiall's SMPW features a frequency range from DC to 100 GHz with exceptionally low VSWR as well as a host of robust improvements to satisfy market demands.

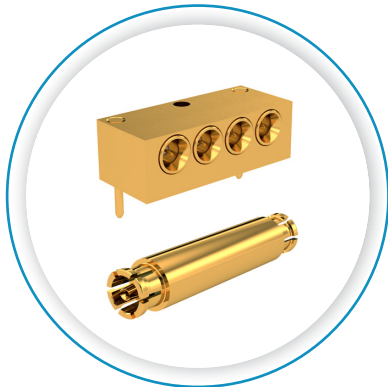
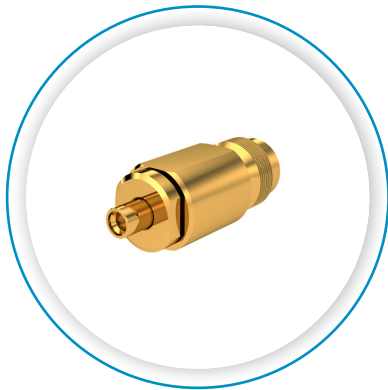
In order to achieve higher reliability and stable performances with SMPW, Radiall has perfected the design, manufacturability and measurement by utilizing controlled atmospheric rooms, dedicated to controlled micro-machining and plating processes.

## SMPW CENTER CONTACT - MACHINING PERFORMANCE

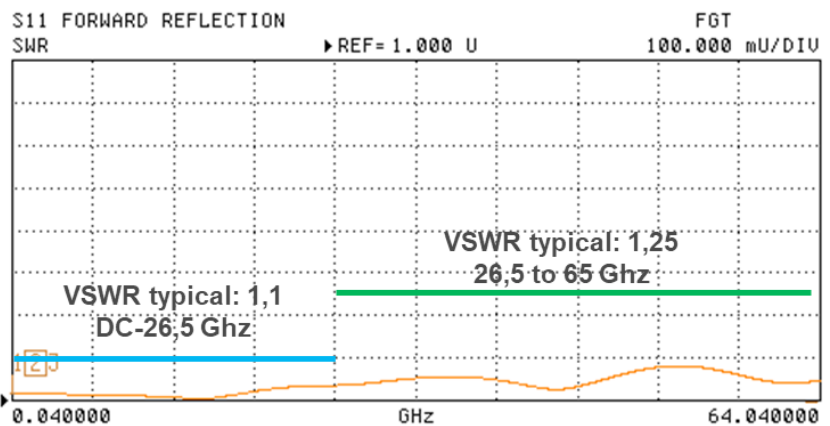


*Typical view from an electron microscope*

Radiall's SMPW is available in multiple configurations, including but not limited to cable connectors, edge mount, surface mount, bullet/adapters, multi-port and customized models.



Radiall's SMPW meets high-frequency requirements in a micro-miniature product, improving robustness and providing high-density integration. The graph below shows VSWR level achieved on Radiall SMPW interface up to 64 GHz.



Legend: VSWR <1.10 up to 64 GHz

SMPW has a push-on coupling and offers 2 standard detents:

- Full detent: used when retention forces need to be high
- Smooth bore: mainly used for blind-mate applications

For additional adaptations for PCB termination, please contact your Radiall representative.

### FEATURES & BENEFITS

- Micro miniature: Ø1.59
- Frequency DC-100 GHz
- Low VSWR: 1.02 up to 67 GHz
- Axial misalignment: 0.3 mm
- Radial misalignment: 2.2°

### APPLICATIONS

- Electronic warfare
- Radar
- Dense Wavelength Division Multiplexing (DWDM) modules
- Array combiners
- Modulator links
- Microwave Kinetic Inductance Detector (MKID)