SPACE SMPM & SMPM-LOCK BY RADIALL

HIGH-FREQUENCY, HIGH-DENSITY, MINIATURE CONNECTORS

Radiall Space SMPM connectors are extremely small connectors designed to support high-frequency and high-density applications. Radiall also offers a reinforced version of the SMPM interface, the SMPM-Lock, designed to withstand the most demanding space environments.

SMPM

- Ideal for blind mate board-to-board or module-to-module connections
- 30% smaller than SMP
- High flexibility in alignment tolerances

SMPM-LOCK

- Robust locking mechanism for an increased retention force
- 42% smaller than SMP-Lock
- Ensures safe connection even in environments with extreme variation and shock application
- EMI gasket for improved RF shielding effectiveness

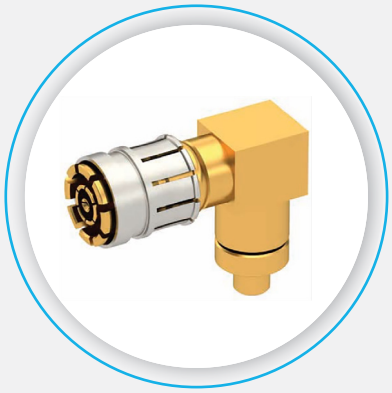
FEATURES & BENEFITS

- *High frequency: up to 40 Ghz*
- *Ultra miniature connector*
- *Temperature range: -65 °C to 125 °C*
- *EMI shielding: 80 dB @ 3 GHz / 75 dB from 3 to 40 GHz*
- *Quick and easy connection / disconnection*
- *Available on smooth bore and full detent configurations*
- *Intermateable with GPPO*

APPLICATIONS

- *Space payloads*
- *Active antennas*
- *Radar*
- *SAR*

Scan for the Space SMPM / SMPM-Lock landing page

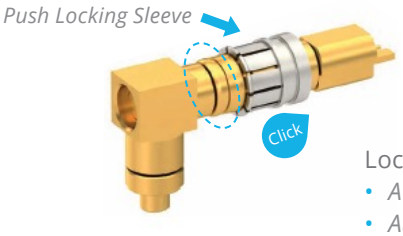


The SMPM-Lock connector features a robust locking mechanism that dramatically increases the retention force of the interface, providing a safe connection even in the most demanding space applications where extreme vibrations and shocks can impact the equipment.

The locking system is simple to implement, quick to engage and very secure when the two interfaces are connected. The locking and unlocking is easily done in two steps:

STEP 1

STEP 2



Lock active when:

- *A large gold area becomes visible*
- *Audible "Click"*

Radiall highly recommends a tool for plugging/unplugging SMPM-LOCK, even if mating and unmating can be done by hand.

Radiall offers 2 different tools:

R282918230

R282868400 [1]

Note

1. *This tool is specifically recommended for disconnection of SMT connectors, as it removes risk of damaging the brazing.*