

IMP-SR

Ground-Breaking Solution
for RF, Signal and Data Rate
Interconnection



IMP-SR RF



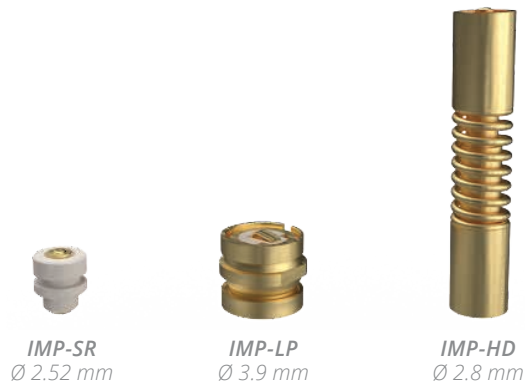
IMP-SR Signal



IMP-SR Data

To meet the new needs of active antenna radar applications, Radiall has created the IMP-SR, a ground-breaking solution to RF, data and signal interconnection.

The IMP-SR was created to meet the emerging needs of active antennas. Smaller than existing solutions with a minimum size of 3.1 mm and a diameter of 2.52 mm, the IMP-SR is a space saving solution that meets manufacturers' expectations. The simple architecture makes the IMP-SR's length easily adaptable, making it the ideal product for customers needing seamless integration.



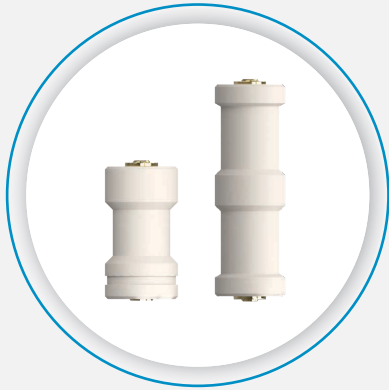
IMP-SR
Ø 2.52 mm

IMP-LP
Ø 3.9 mm

IMP-HD
Ø 2.8 mm

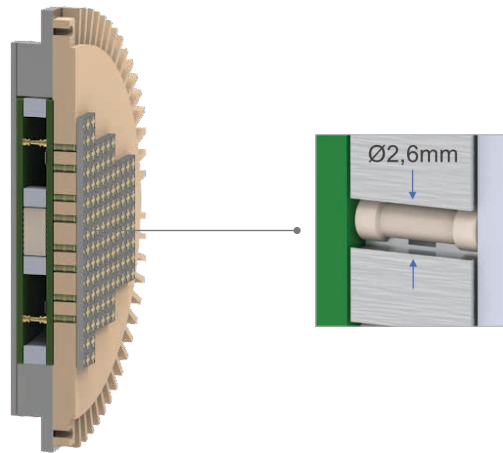
This connector features electrical performance up to 70 GHz and allows very low insertion losses of -0.45 dB @ 20 GHz and can reach over 100 Gb PAM4. The elimination of the soldering operation facilitates and accelerates installation and training of operators. The maintenance operations of the connectors and the PCBs are simplified, reducing installation time.

Three solutions are available: RF, Signal and Data.



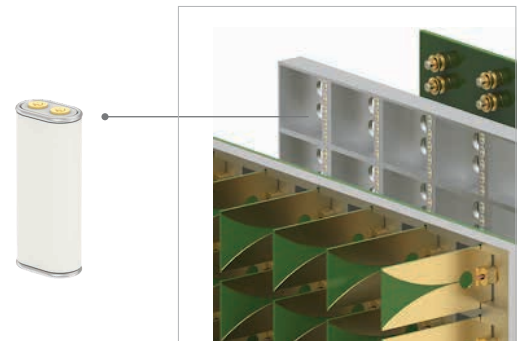
The IMP-SR is integrated directly into the radar architecture to optimize space and facilitate implementation.

Made of a central contact and an insulator, the IMP-SR reinvents RF links. It is integrated directly into the radar architecture and more specifically into the cold plate. The cold plate serves as a support and ground contact for the connector. The connector can also be used for signal and data transmission via multi-channels.



Simplified installation: the IMP-SR is solderless, so it only needs to be slid into the cavity.

Installation is possible for data and signal transmission.



FEATURES & BENEFITS

- Up to 70 GHz
- Insertion Loss: 0.63 dB @ 40 GHz
- VSWR: 1.3 Max @ 40 GHz
- 1.2 N pressure force
- Data: over 100 Gbps PAM4