IMP-LP

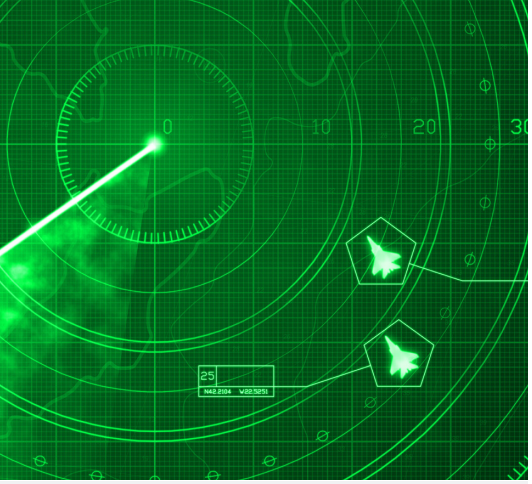
The Ultimate Low Board-to-Board Solution

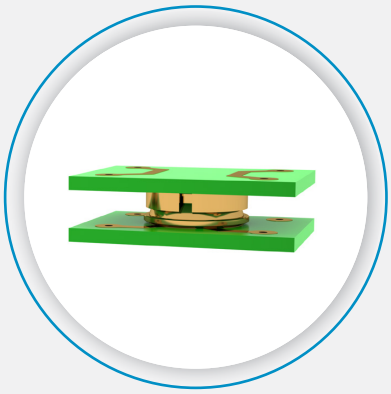
The IMP-LP product range is the lowest Board-to-Board distance solution with optimized RF performance. This small form factor system features a pressure contact design to provide a quick and reliable installation without any soldering.

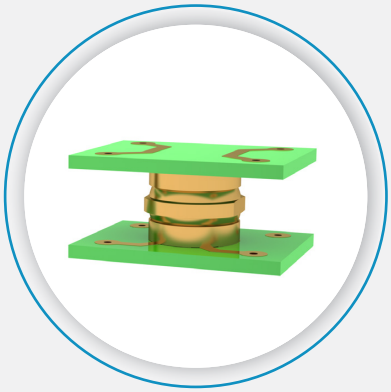
The Radiall's new IMP product range is a true coaxial line providing excellent RF performance in one small, single package. While standard SMP type solutions require two receptacles linked by one bullet, IMP provides the same functionality with only one connector.

The smart design with inner and outer elastic contacts ensures electrical continuity and does not require an additional soldering process on the other side. This unique design makes IMP-LP an easy to install and low maintenance solution that can be used to connect various RF modules or boards together.

This micro-miniature product offers an ultra low Board-to-Board distance of 1.34 mm with an optimized minimum diameter of 3.9 mm. The lowest Board-to-Board distance axial misalignment is +/- 0.1 mm and a higher Board-to-Board distance axial tolerance can be improved up to +/-0.2 mm. The 50 Ohm coaxial line has been qualified up to 18 GHz for demanding MIL-AERO environments requiring resistance to vibration and shock.

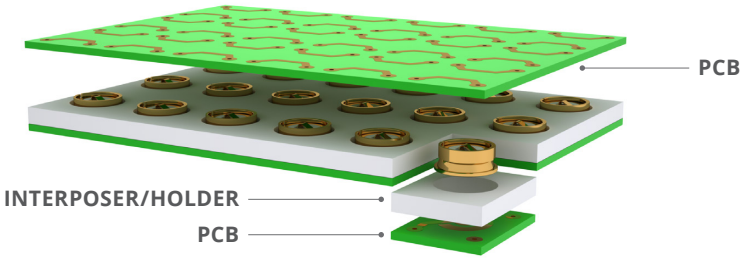






Radiall's IMP-LP meets all next generation requirements by offering a small form factor and excellent RF performance while simplifying installation and maintenance.

IMP-LP is the perfect solution where numerous RF connections, low Board-to-Board distance and optimization between channel pitch distance are required. The solderless process enables a very quick and easy installation for typical RF configurations.



Typical high density and low Board-to-Board installation requiring IMP-LP.

FEATURES & BENEFITS

- *High frequency: 18 GHz*
- *Optimized for X-Band*
- *Smallest B2B distance 1.34 mm*
- *Axial misalignement: from +/- 0.1 up to +/- 0.2 mm*
- *Temperature range: -55 to 125°C*
- *Sealing option*

APPLICATIONS

- *Radar*
- *Electronic warfare*
- *Military radio*
- *Antenna*