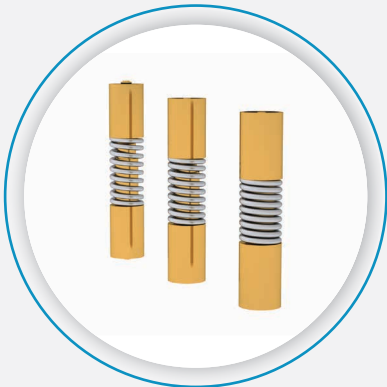
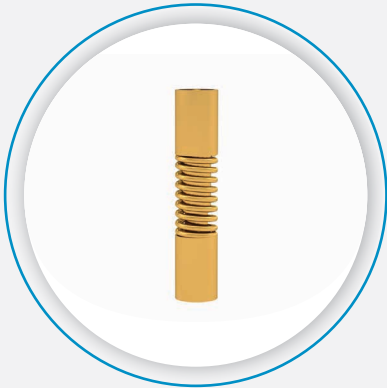


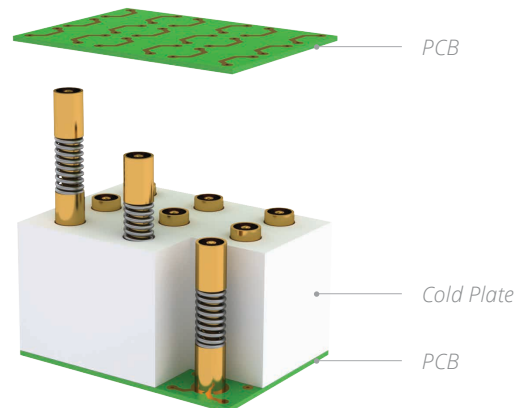
IMP-HD

The answer for higher board-to-board integration densities



The IMP High Density meets the most demanding requirements of the active antenna market, thanks to its enhanced RF performance.

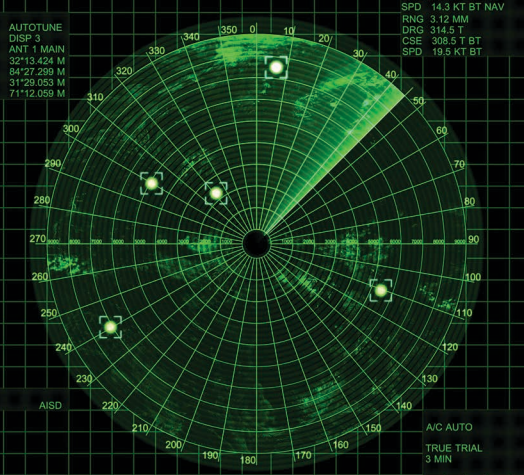
The IMP-HD is a true coaxial line connector, for board-to-board applications, that supports the most demanding product requirements in equipment miniaturization while increasing performances. Its small length and diameter enable higher integration density, a major requirement for active antennas manufacturers today. It can be customized to meet every need. With the same goal to save space, the existing cold plate in such systems can be configured to integrate the IMP-HD connectors in their cavity. The process is simplified by the high axial tolerance of 1 mm and could be used in complex stacking design.



Example of the integration of an IMP-HD

Thanks to its solderless system, the IMP-HD eliminates the soldering constraints that occur throughout the product life cycle. Connector installation and maintenance is easier and the reliability of the interconnection is improved.

Compared to conventional board-to-board solutions made up of three parts, the IMP-HD makes it easier to implement connections through the use of a single connector and significantly improves insertion loss.



Thanks to its advanced performance, the IMP-HD is a perfect choice for creating a reliable, effective interconnection.

Radiall supports the most demanding applications by providing enhanced features with the IMP-HD. It provides optimized RF performances up to 20 GHz and pitch with its minimal length of 13 mm and its small diameter of 2.8 mm.

The IMP-HD has been designed to meet the most restrictive requirements of harsh environments. It operates at high and low temperatures over a range of -65 °C to 165 °C. The connector is resistant to vibration and is certified MIL-STD-810.

FEATURES & BENEFITS

- Up to 20 GHz
- Temperature [-65 °C ; 165 °C]
- Insertion Loss: 0.2 $\sqrt{f(\text{GHz})}$ dB Max

APPLICATIONS

Active antenna in:

- Aerospace
- Defense
- Space

Note

This product is available with a Low Phase Noise option.