

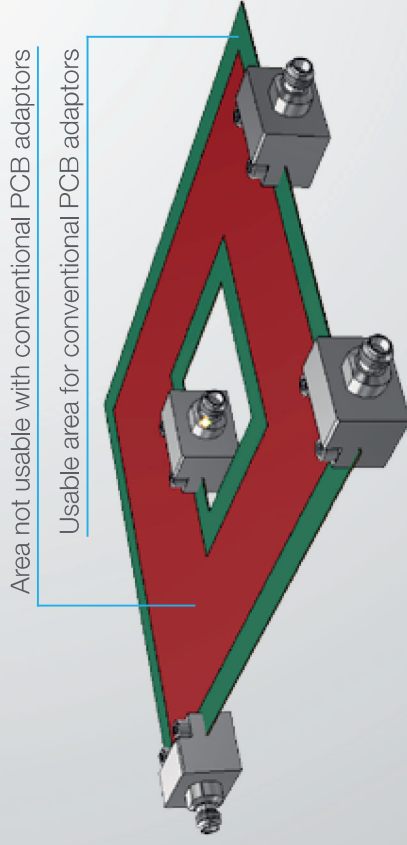
The Challenge

There is an increasing demand for millimeter wave signal pickup on printed circuit boards (PCBs). However, existing solutions either limit the range of possible PCB layouts or reduce RF performance.

In most cases, layout designs are limited by the need to solder PCB adaptors to the edge of the board. The worst case is when the board includes cavities for picking up RF signals somewhere in the middle.

Other solutions that involve taping RF signals in the middle of the board impair RF performance since the PCB adaptor's stiff inner conductor pricks the surface.

Conventional Solution



Conventional adaptors can only be positioned at the **edge of the board** and require an **extended board design**.

The Solution

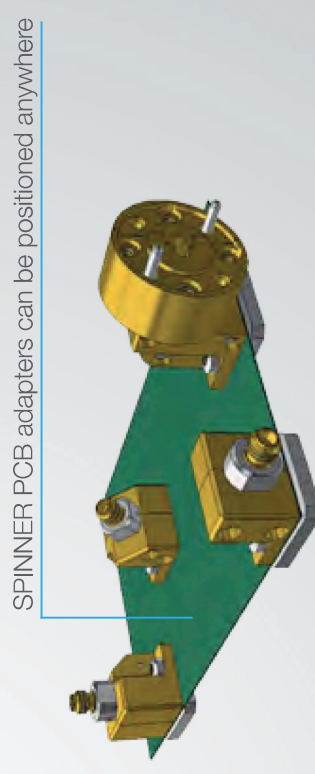
The flexible, soft-launch SPINNER EasyLaunch is mounted flush with the PCB surface and ensures excellent RF performance, even with multiple launches.

This technology permits **variable positioning** of the connectors and **maximizes flexibility** for placing RF contacts.

Advantages of SPINNER EasyLaunch

- Variable positioning for maximum flexibility
- Excellent RF performance for the highest frequencies
- Compact board design

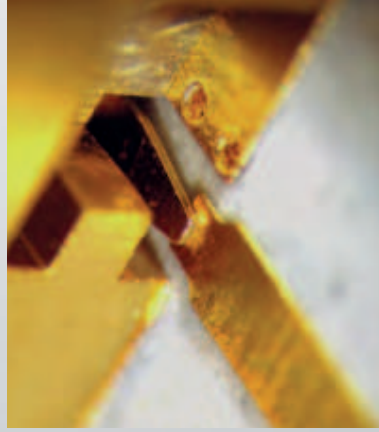
SPINNER EasyLaunch Solution



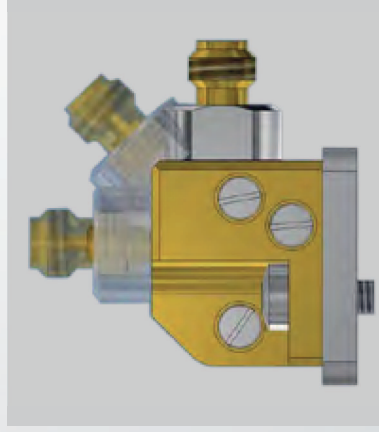
SPINNER EasyLaunch adaptors can be positioned **everywhere** at the board and enable a **more compact board design**.

Benefits

- Excellent RF performance:
The soft-launch concept avoids compromising the PCB surface, even when there are multiple launches.
- Support for more compact PCB designs:
The SPINNER EasyLaunch adaptor can be positioned anywhere.
- The SPINNER EasyLaunch adaptor and PCB board can be easily reused—no soldering required.
- Flush contact with the PCB
- Support for a wide range of PCB substrates
- The fixed connector interface can be ordered for any angle between 0° and 90°.



The soft-launch concept of the SPINNER EasyLaunch avoids compromising the PCB surface.



The fixed connector interface can be ordered for any angle between 0° and 90°.

Technical Data

Coaxial Adaptors

Connector Style	Frequency Range	Part Number
1.0 mm female	110 GHz	BN 533402
1.85 mm female	67 GHz	BN 533404
2.92 mm female	40 GHz	BN 533410

Waveguide Adaptors

Connector Style	Frequency Range	Part Number
WR 10 / R 900	75 - 110 GHz	BN 533411
WR 12 / R 740	60 - 90 GHz	BN 533412
WR 15 / R 620	50 - 75 GHz	BN 533413

Substrates

Laminates	Products
Rogers RO3000® laminates	RO3000®
Rogers RT/duroid® laminates	5870
Rogers RT/duroid® laminates	5880
Rogers RT/duroid® laminates	5880 LZ