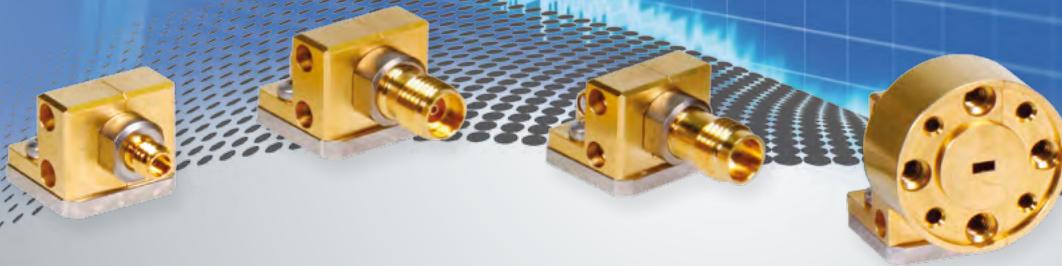


# Maximize Your Flexibility

100 110 GHz



## SPINNER EasyLaunch PCB Adaptors for Millimeter Wave

HIGH FREQUENCY PERFORMANCE WORLDWIDE

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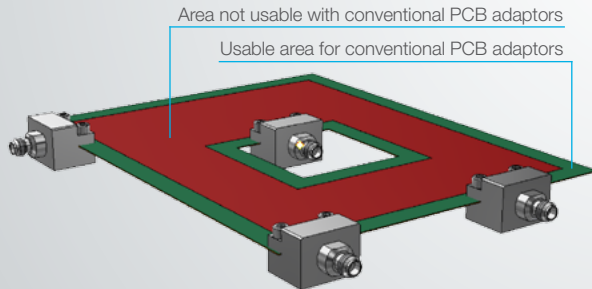
## The Challenge

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 adapters 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

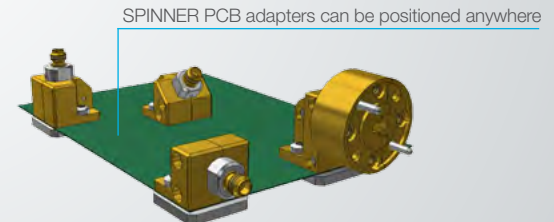
The flexible, soft-launch SPINNER EasyLaunch is mounted flush with the PCB surface and ensures excellent RF performance, even with multiple launches.

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

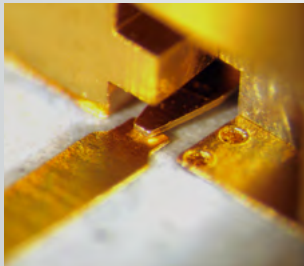
### SPINNER EasyLaunch Solution



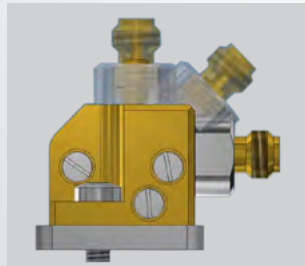
**SPINNER EasyLaunch** adaptors can be positioned **everywhere** at the board and enable a **more compact board design**.

## 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	<b>BN 533402</b>
1.85 mm female	67 GHz	<b>BN 533404</b>
2.92 mm female	40 GHz	<b>BN 533410</b>

### Waveguide Adaptors

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

### Substrates

Laminates	Products
Rogers RO3000® laminates	RO3003™ laminates
Rogers RT/duroid® laminates	5870 laminates
Rogers RT/duroid® laminates	5880 laminates
Rogers RT/duroid® laminates	5880 LZ laminates



## HIGH FREQUENCY PERFORMANCE WORLDWIDE

SPINNER designs and builds cutting-edge radio frequency systems, setting performance and longevity standards for others to follow. The company's track record of innovation dates back to 1946, and many of today's mainstream products are rooted in SPINNER inventions. Industry leaders continue to count on SPINNER's engineering excellence to drive down their costs of service and ownership with premium-quality, off-the-shelf products and custom solutions. Headquartered in Munich, Germany, the global frontrunner in RF components remains the first choice in simple-yet-smart RF solutions.

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Data subject to change without notice

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