SPINNER

0.5 mm Coaxial Connector System

Reaching New Heights!

250 GHz

167 GHz – 0.8 mm System

120 GHz – 1.0 mm System

DC to 250 GHz Testing – Now Possible

HIGH FREQUENCY PERFORMANCE WORLDWIDE

spinner-group.com

SPINNER

The SPINNER Group

For nearly 80 years, the SPINNER Group has been setting new standards worldwide in high-frequency technology. Based in Munich with production facilities in Germany, Hungary and China, SPINNER currently has over 800 employees. Our international network of subsidiaries and distributors supports customers in over 40 countries.


TEST & MEASUREMENT

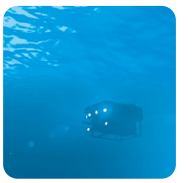

COMMUNICATION


BROADCAST


SATCOM/SPACE


RADAR


INDUSTRY


SUBSEA/OFFSHORE

RF Measurement

These days, up-to-date measurement equipment is essential for all development, production, testing and quality control departments that deal with RF signals on coaxial lines. Particularly for vector network analyzers, high-precision connectors, terminations, and adapters are a must.

The same statement applies to calibration kits and mechanical accessories such as gauges for checking mating face dimensions or torque wrenches for tightening coupling nuts. In all of these cases, SPINNER has established new, extremely high standards of precision which most users would not want to do without.

Precisely measured values are especially important when transmitting high power levels. Other major applications includes extensive testing of mobile communications systems, terahertz communication, terabit ethernet high-speed data transmission and quantum research.

SPINNER supplies coaxial measurement equipment of outstanding electrical and mechanical quality for use at frequencies up to 250 GHz.

Coaxial and Waveguide Measurement Devices

Coaxial & waveguide measurement devices made by SPINNER are needed for:

VNA / S-Parameter Measurement

- Calibration and verification standards
- Air lines
- Rotary joints
- Articulated lines
- Adapters
- Connector gauges

Millimeter Wave Measurement

- Ruggedized test port adapters
- mmWave waveguide-to-coaxial adapters
- 0.5 mm, 0.8 mm & 1.0 mm coaxial connector system
- Cable connectivity solutions
- 1.35 mm E Connector
- EasyLaunch PCB connectors
- EasySnake flexible dielectric waveguides
- Connectivity solutions for RF anechoic chambers

PIM Measurement and Test Automation

- EasyDock push-pull adapters
- Low PIM switches
- Low PIM test cables
- Low PIM rotary joints
- Low PIM loads
- Low PIM passive intermodulation standards

Connectivity Solutions for RF Anechoic Chambers

- Ruggedized test port adapters
- mmWave waveguide-to-coaxial adapters
- Panel feedthroughs
- Articulated lines
- EasySnake flexible dielectric waveguides
- Rotary joints

SPINNER 0.5 mm Portfolio Overview

Engineered for seamless integration with Keysight's new NA5305A and NA5307A frequency extenders (170/250 GHz)

Standard Coaxial Adapters

Part Number (BN)	Description	Frequency Range
530865	Adapter; precision, 0.8 mm male, 0.5 mm female	DC to 167 GHz
530866	Adapter; precision, 0.8 mm female, 0.5 mm female	
530867	Adapter; precision, 0.8 mm male, 0.5 mm male	
530868	Adapter; precision, 0.8 mm female, 0.5 mm male	
535939	Adapter; 0.5 mm male, 0.5 mm male	DC to 250 GHz
535940	Adapter; 0.5 mm female, 0.5 mm female	
535941	Adapter; 0.5 mm male, 0.5 mm female	

Ruggedized Coaxial Adapters

Part Number (BN)	Description	Frequency Range
535163	Adapter; precision, 1.0 mm male, 0.5 mm female RUG	DC to 120 GHz
535164	Adapter; precision, 1.0 mm female, 0.5 mm female RUG	
535167	Adapter; precision, 1.0 mm female RUG, 0.5 mm female RUG	
535161	Adapter; precision, 0.8 mm male RUG, 0.5 mm female RUG	DC to 167 GHz
535141	Adapter; precision, 0.8 mm male, 0.5 mm male RUG	
535142	Adapter; precision, 0.8 mm female, 0.5 mm male RUG	
535153	Adapter; precision, 0.8 mm male, 0.5 mm female RUG	
535154	Adapter; precision, 0.8 mm female, 0.5 mm female RUG	
535162	Adapter; precision, 0.5 mm male RUG, 0.5 mm female RUG	DC to 250 GHz

Waveguide-to-Coaxial Adapters

Part Number (BN)	Description	Frequency Range
530502	Adapter; precision, R 1.4k (WR 7 / WR 6.5), 0.5 mm female	110 to 170 GHz
530503	Adapter; precision, R 1.4k (WR 7 / WR 6.5), 0.5 mm male RUG	
530520	Adapter; precision, R 1.4k (WR 7 / WR 6.5), 0.5 mm female RUG	
530506	Adapter; precision, R 1.8k (WR 5.1), 0.5 mm female	140 to 220 GHz
530507	Adapter; precision, R 1.8k (WR 5.1), 0.5 mm male RUG	
530521	Adapter; precision, R 1.8k (WR 5.1), 0.5 mm female RUG	

Board Connectivity

Part Number (BN)	Description	Frequency Range
530504	Bord launch connector 0.5 mm-f	DC to 220 GHz
530505	Bord launch connector 0.5 mm-f	DC to 250 GHz

Cable Connectors

Part Number (BN)	Description	Frequency Range
530510	Cable connector; 0.5 mm male, 0.031”, e.g. UT-031-LA, EZ-031-LA	DC to 175 GHz
530512	Cable connector; 0.5 mm female, 0.031”, e.g. UT-031-LA, EZ-031-LA	
530513	Cable connector; 0.5 mm male, 0.023”, e.g. UT-020, EZ-20	
530514	Cable connector; 0.5 mm female, 0.023”, e.g. UT-020, EZ-20	DC to 250 GHz
530517	Cable connector; 0.5 mm thru-male, 0.023”, e.g. EZ-20-LA	
530518	Cable connector; 0.5 mm male, 0.023”, e.g. EZ-20-LA	
530519	Cable connector; 0.5 mm female, 0.023”, e.g. EZ-20-LA	
530527	Cable connector; 0.5 mm female RUG, 0.023”, e.g. EZ-20-LA	
530529	Cable connector; 0.5 mm male RUG, 0.023”, e.g. EZ-20-LA	

Cable Assemblies

Part Number (BN)	Description	Frequency Range
535831C0001	Coaxial cable assembly; 0.5 mm male, 0.5 mm male, 0.023”, 75 mm	DC to 250 GHz
535835C0001	Coaxial cable assembly; 0.5 mm female, 0.5 mm female, 0.023”, 75 mm	
535834C0001	Coaxial cable assembly; 0.5 mm male, 0.5 mm female, 0.023”, 75 mm	
535831C0002	Coaxial cable assembly; 0.5 mm male, 0.5 mm male, 0.023”, 100 mm	
On request	Coaxial cable assembly; 0.5 mm female, 0.5 mm female, 0.023”, 100 mm	
On request	Coaxial cable assembly; 0.5 mm male, 0.5 mm female, 0.023”, 100 mm	
535831C0003	Coaxial cable assembly; 0.5 mm male, 0.5 mm male, 0.023”, 150 mm	
On request	Coaxial cable assembly; 0.5 mm female, 0.5 mm female, 0.023”, 150 mm	
On request	Coaxial cable assembly; 0.5 mm male, 0.5 mm female, 0.023”, 150 mm	
535836C0001	Coaxial cable assembly; 0.5 mm male RUG, 0.5 mm male RUG, 0.023”, 150 mm	
535837C0001	Coaxial cable assembly; 0.5 mm female RUG, 0.5 mm female RUG, 0.023”, 150 mm	
535838C0001	Coaxial cable assembly; 0.5 mm male RUG, 0.5 mm female RUG, 0.023”, 150 mm	

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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