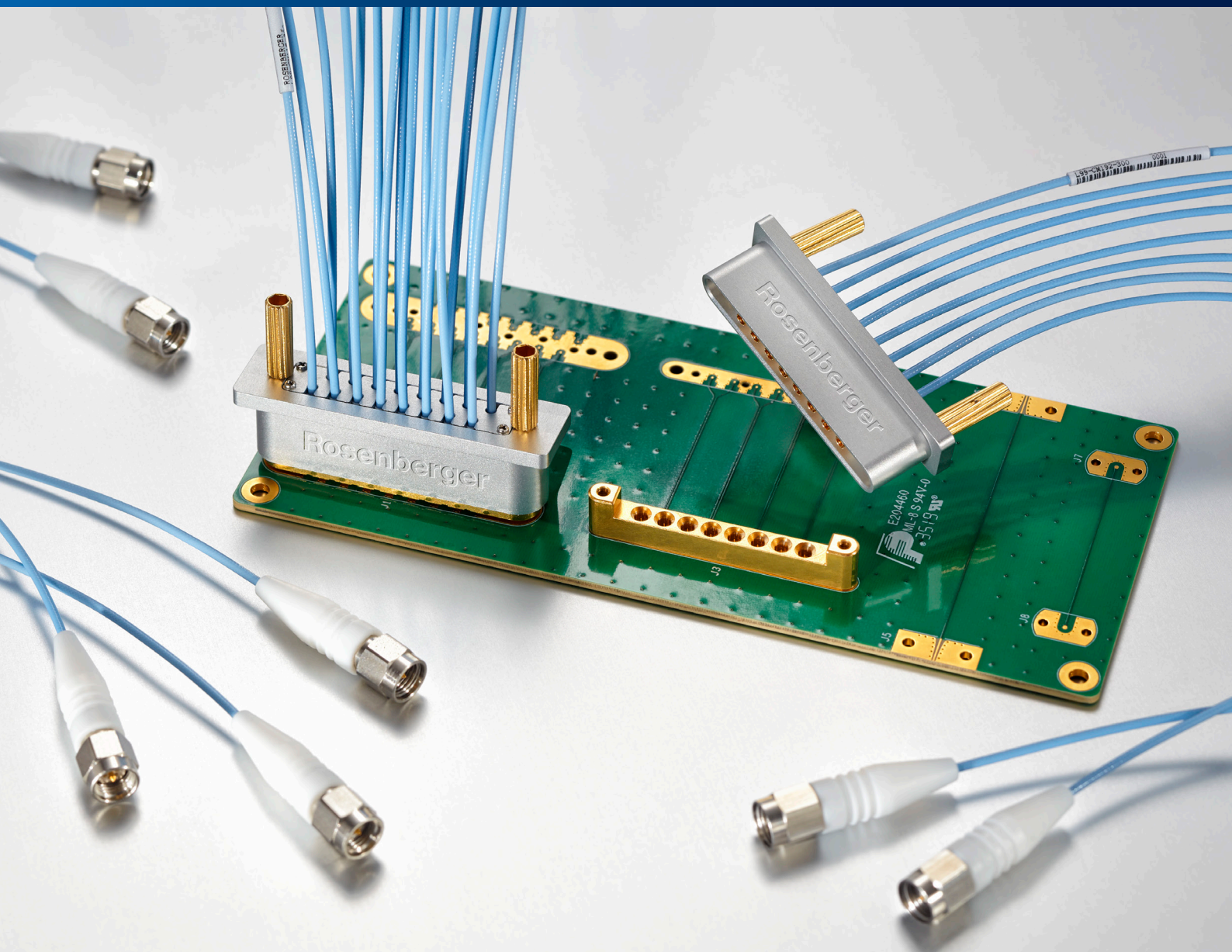
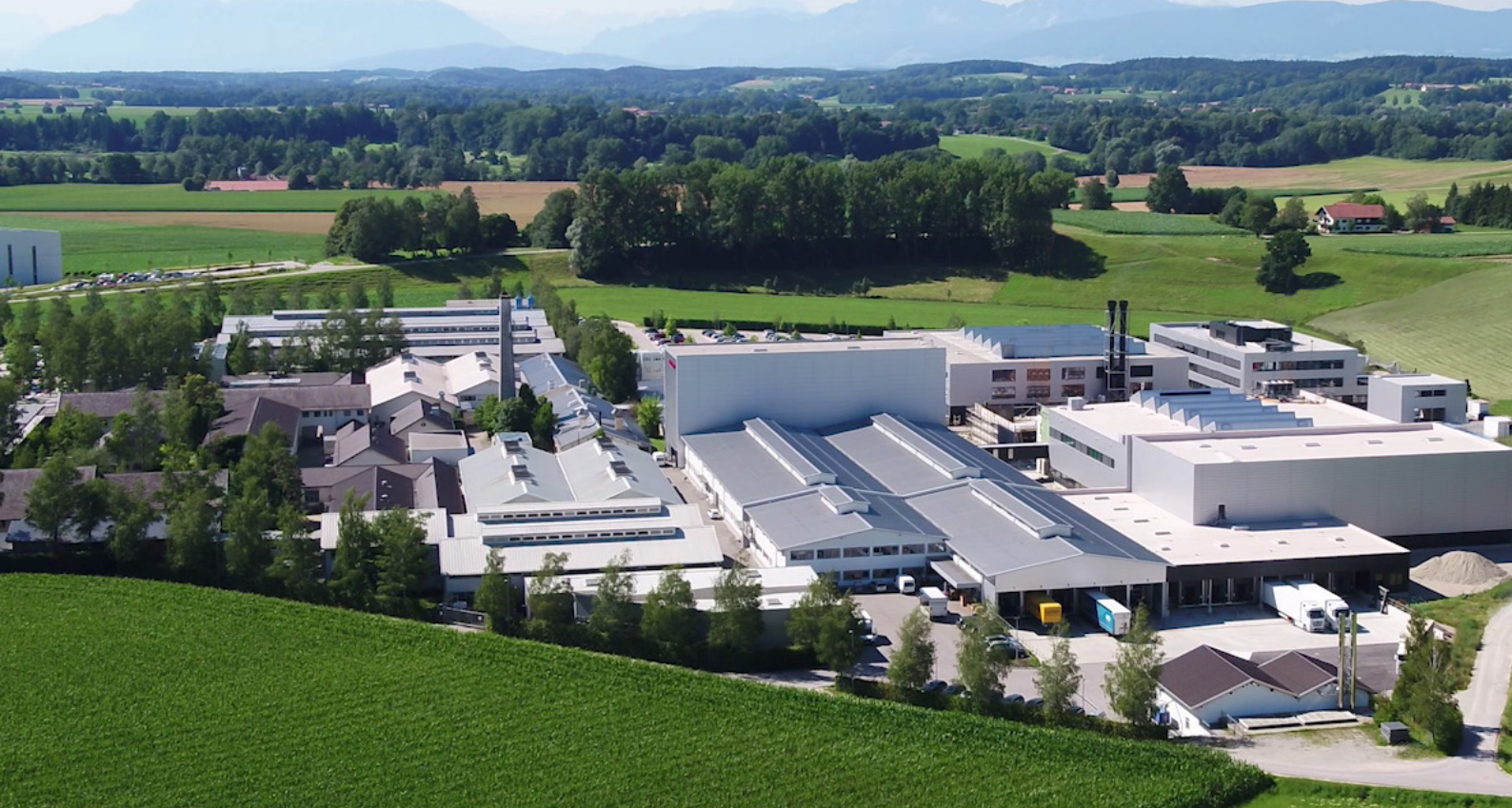


Designed for PCB Connections up to 40 GHz / 65 GHz

Multiport Mini-SMP Connectors and Cable Assemblies

TEST & MEASUREMENT





Company Profile

About Rosenberger

Rosenberger, a family owned company, is one of the world's leading manufacturers of impedance-controlled connectivity solutions in high-frequency, high-voltage and fiberoptic technology. Renowned companies in high-tech industries trust the precision and quality of Rosenberger products, e.g. mobile communication networks, data centers, test & measurement industries, automotive electronics, industrial and medical electronics, or aerospace engineering.

Worldwide, the Rosenberger group operates a global network of R&D, manufacturing and assembly locations as well as Rosenberger sales offices in Europe, Asia and North and South America where more than 11,800 employees develop, produce and sell our products.

Test & Measurement

Rosenberger is a dependable and renowned development partner in industrial measurement technology. The fact that we work with leading global companies from the electronic measurement technology field reflects the way that others trust our research and development, our high-quality manufacturing, and not least our customer-orientated "Made in Germany" service. Rosenberger provides customized solutions – cost-optimized and timely – from the initial idea right through to volume production.

Rosenberger develops and produces a comprehensive range of cost-effective, high-quality and high-precision test & measurement products and services – microwave measurements & VNA calibrations, lab and factory testing, semiconductor test applications, PCB connections or network testing.



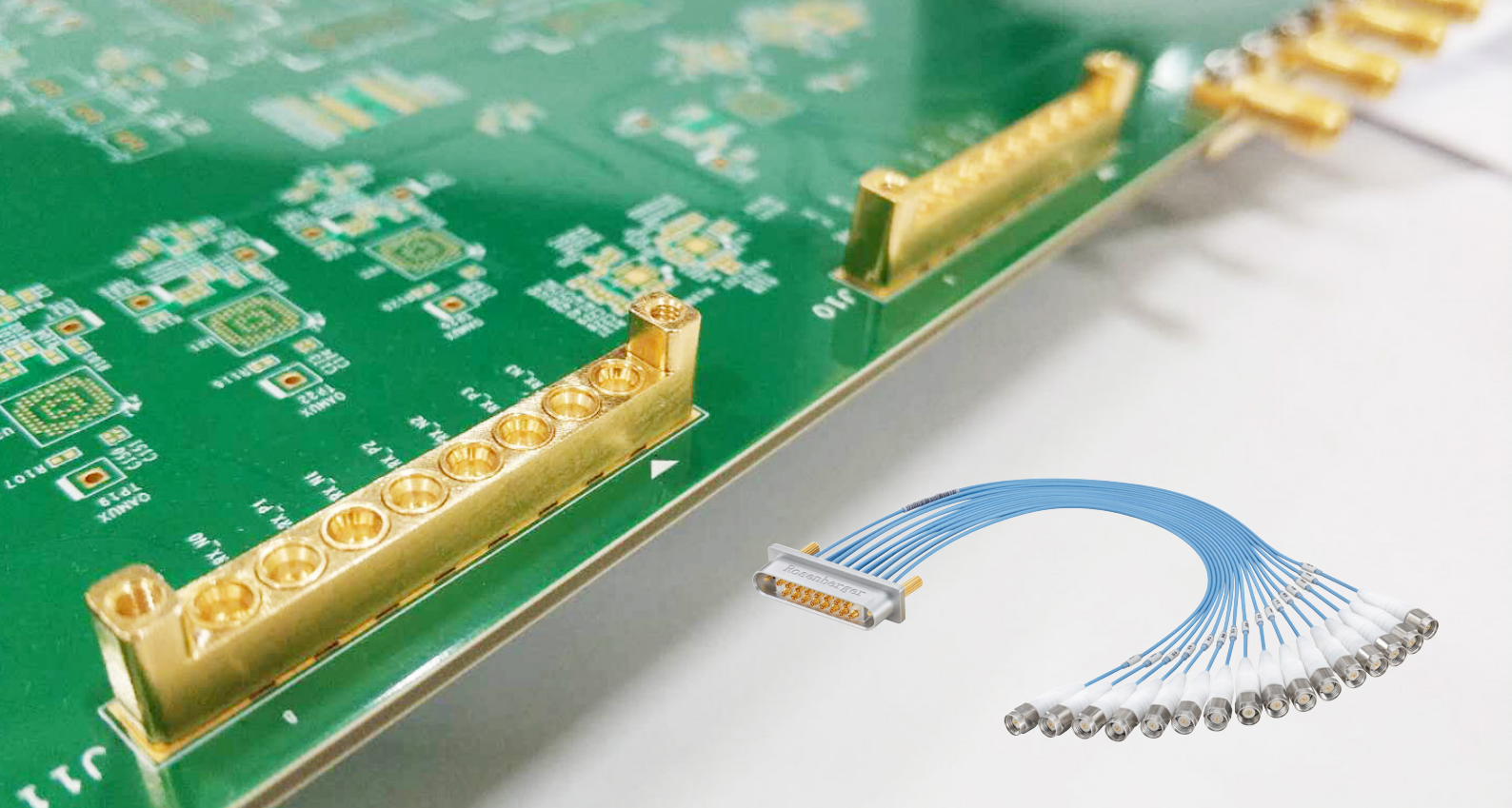
Contents

| | |
|--|---|
| Company Profile _____ | 2 |
| Multiport Mini-SMP Connectors and Cable Assemblies _____ | 4 |
| The Solderless System – Cost-Effective _____ | 4 |
| Product Features _____ | 5 |
| Applications _____ | 5 |
| Product Portfolio _____ | 6 |

The Rosenberger online catalog contains the current product range with specific details, including data sheets, assembly instructions and panel piercings.

www.rosenberger.com/ok



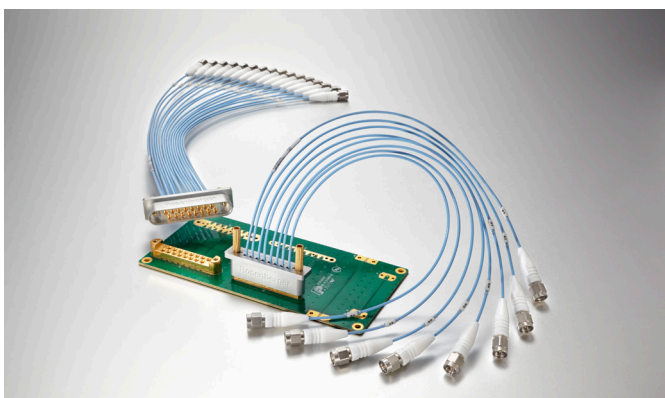


Multiport Mini-SMP – for 40 GHz and 65 GHz

Multiport Mini-SMP Connectors and Cable Assemblies

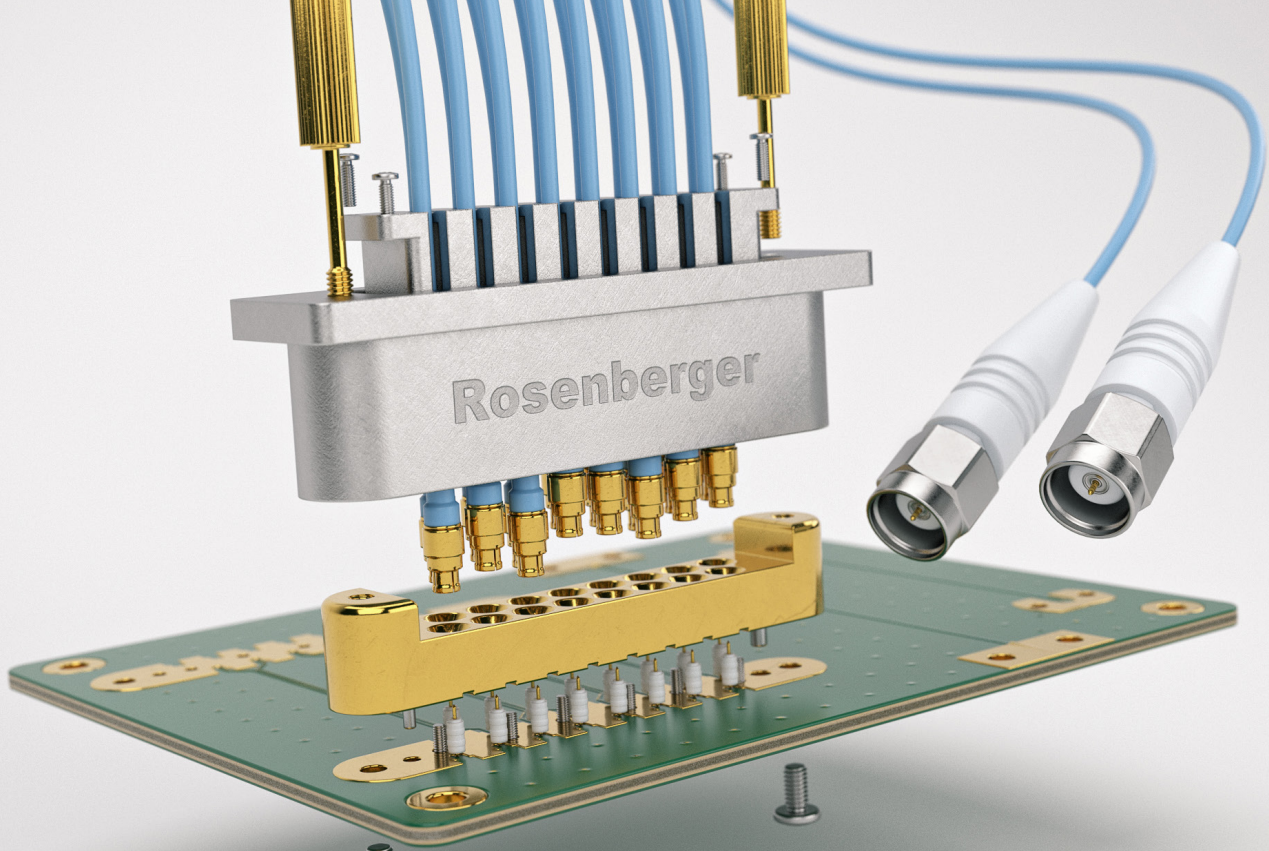
The Multiport Mini-SMP connector system from Rosenberger consists of PCB connectors to be mounted solderless on printed circuit boards and cable assemblies.

The PCB connectors - with 8 or 16 channels available – offer excellent signal integrity for all kinds of printed circuit boards up to 65 GHz. Mini-SMP – RPC-2.92 cable assemblies cover a frequency range DC to 40 GHz, Mini-SMP – RPC-1.85 cable assemblies up to 65 GHz. The cable assemblies are available with 8 or 16 channels, too.



Product Features

- Frequency range DC to 40 GHz / 65 GHz
- Superior signal integrity
- High packing density, small dimensions
- High electrical and mechanical stability, very flexible cables
- Cable assemblies: phase matched by pairs
- Easy to handle, repairable
- 8 and 16 channels available
- Different cable lengths available



Cost-Effective System

The Solderless System – Cost-Effective

The Multiport Mini-SMP system is engineered solderless – all devices can be easily mounted by using screws: the PCB connectors to the PCB board as well as the cable assemblies to the PCB connectors.

The screw-transition to the PCB board avoids signal distortion and has a lot of advantages:

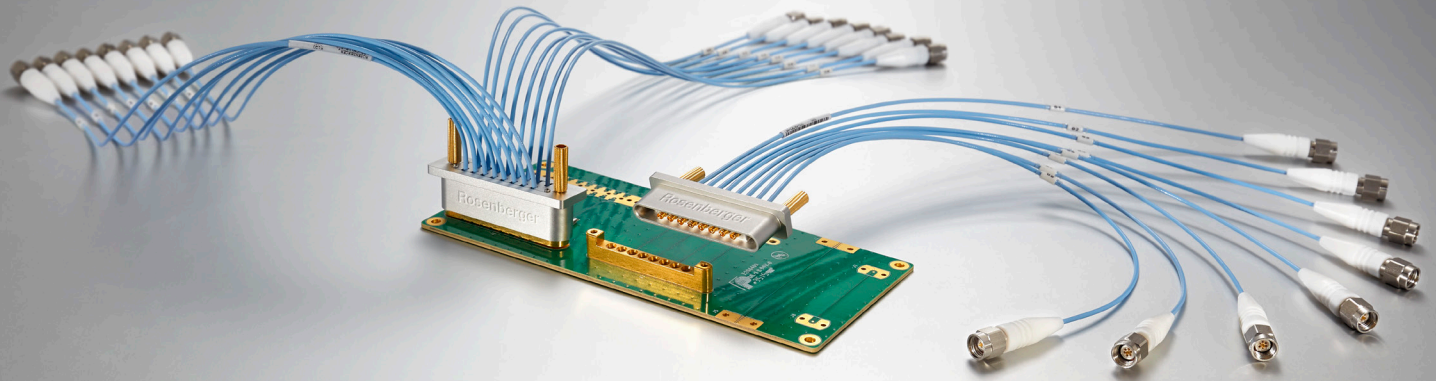
- Reliable and reusable
- High number of mating cycles
- Damage-free connection
- Low abrasion
- Compatible with standard Mini-SMP interface (smooth bore)

The result is a high-performance and very cost-effective system for test & measurement applications.

Applications




The Multiport Mini-SMP connector system can be used for challenging test & measurement applications, especially for frequencies up to 40 GHz / 65 GHz.

- Semiconductor test equipment
- Bench-top measurement instrumentation
- System testing
- Applications where the DUT changes frequently



Product Portfolio

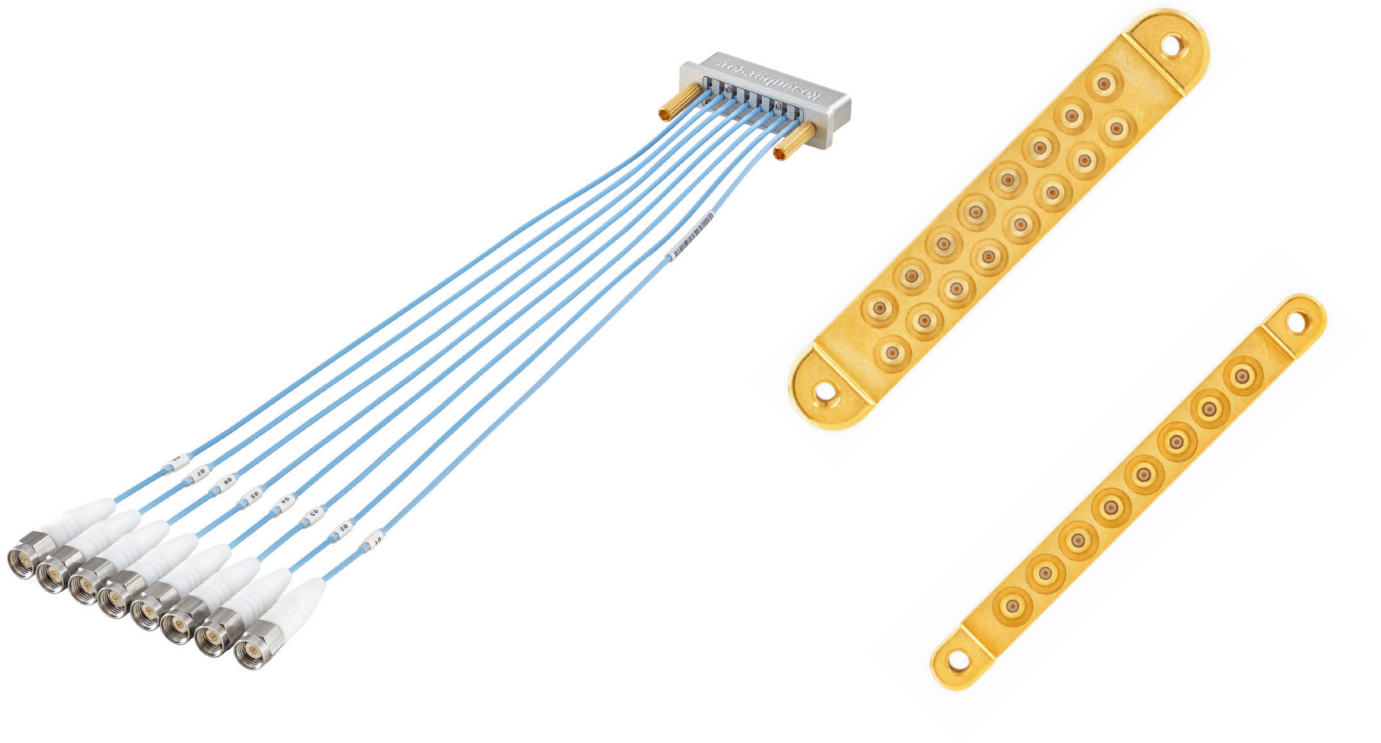
Multiport Mini-SMP, Connectors

| Rosenberger No. | Channels | Frequency Range | Remarks | |
|-----------------|----------|-----------------|---|---|
| MC18S108-40ML5 | 8 | DC to 65 GHz | with alignment pins |  |
| MC18S109-40ML5 | 8 | DC to 65 GHz | without alignment pins, very compact dimensions |  |
| MC18S116-40ML5 | 16 | DC to 65 GHz | |  |




Multiport Mini-SMP, Cable Assemblies

Technical Data Cable Assemblies



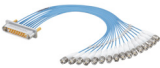
| Electrical Data | Mini-SMP – RPC-2.92 | Mini-SMP – RPC-1.85 |
|-------------------------|---|---|
| Impedance | 50 Ω | 50 Ω |
| Frequency | DC to 40 GHz | DC to 65 GHz |
| Return loss | ≥14 dB @ DC to 40 GHz | ≥10 dB @ DC to 65 GHz |
| Insertion loss | 8.5 dB / m typical@max. frequency | 15 dB / m typical@max. frequency |
| Pairwise phase matching | 2 ps and 5 ps phase matching on request | 2 ps and 5 ps phase matching on request |



Mini-SMP – RPC-2.92 Cable Assemblies, 40 GHz

| Rosenberger No. | Connector 1 | Connector 2 | Channels | Cable Compatible to | |
|-----------------|-----------------|---------------|----------|---------------------|---|
| L99-CM192-xxx | Mini-SMP female | RPC-2.92 male | 8 | MC18S108-40ML5 |  |
| L99-CM277-xxx | Mini-SMP female | RPC-2.92 male | 8 | MC18S109-40ML5 |  |
| L99-CM118-xxx | Mini-SMP female | RPC-2.92 male | 16 | MC18S116-40ML5 |  |

Mini-SMP – RPC-1.85 Cable Assemblies, 65 GHz

| Rosenberger No. | Connector 1 | Connector 2 | Channels | Cable Compatible to | |
|-----------------|-----------------|---------------|----------|---------------------|---|
| L99-CM193-xxx | Mini-SMP female | RPC-1.85 male | 8 | MC18S108-40ML5 |  |
| L99-CM423-xxx | Mini-SMP female | RPC-1.85 male | 8 | MC18S109-40ML5 |  |
| L99-CM003-xxx | Mini-SMP female | RPC-1.85 male | 16 | MC18S116-40ML5 |  |

xxx: Please fill in the requested length. Standard length = 300 mm



Website

For more information refer to our website:
www.rosenberger.com/t&m

Rosenberger

Rosenberger Hochfrequenztechnik GmbH & Co. KG

Hauptstraße 1 | 83413 Fridolfing

P.O. Box 1260 | 84526 Tittmoning

Germany

Phone +49 8684 18-0

info@rosenberger.com

www.rosenberger.com

Certified by IATF 16949 · DIN EN 9100 · ISO 9001 · ISO 14001 · ISO 50001

Order No.

pA 512866 · Info311MultiMini-SMP
1000/2021

Rosenberger® is a registered trademark of Rosenberger Hochfrequenztechnik GmbH & Co. KG.
All rights reserved.

© Rosenberger 2021