

Rosenberger

Modular Connector System



Modular Connector System

In cooperation with key customers, Rosenberger has developed a modular connector system which improves existing solutions and fulfills the increasing requirements of test and measurement industries: to cover the whole frequency range from DC to 50 GHz only one part of PCB contact has to be processed.

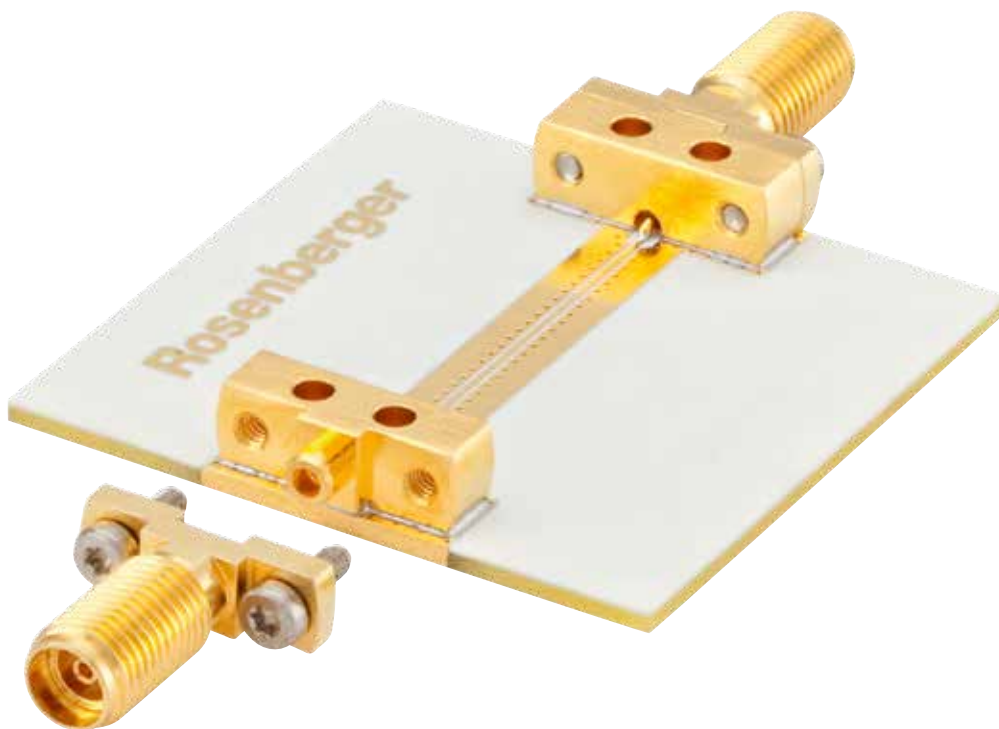
The possibility to choose between the best known IEC interfaces enables a wide range of applications.

Features

- ▶ One PCB contact for various female connector heads
- ▶ Connector heads can be easily changed
- ▶ Different connector heads for different frequency ranges
- ▶ Casted center conductor
- ▶ Robust against multiple solder cycles
- ▶ Low profile
- ▶ Both sides of the PCB can be processed (apply solder paste)
- ▶ Service friendly
- ▶ Locking screws with Tuflok

Applications

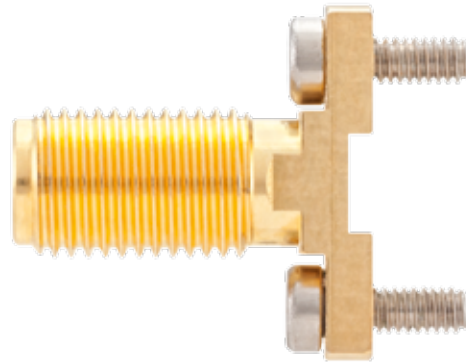
- ▶ High volume industrial production of high end PCB up to 50 GHz
- ▶ Applications with different interfaces on one board
- ▶ Applications with repair friendly products
- ▶ Applications where maintenance is important



PCB Contact



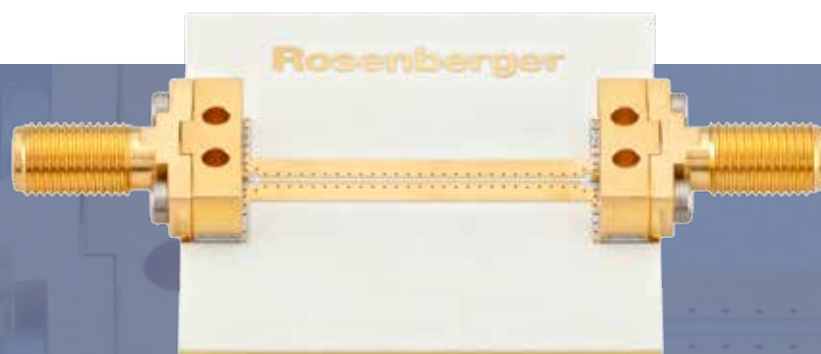
Female Connector Heads



99S2A5-40ML5 – PCB contact for all female connector head types

Technical Data

| | SMA | RPC-3.50 | RPC-2.92 | RPC-2.40 |
|---|---|--------------------------|------------------------|------------------------|
| Rosenberger No. female connector heads | 32K701-800L3 | 03K701-800L3 | 02K702-800L3 | 09K701-800L3 |
| Rosenberger No. PCB contact | 99S2A5-40MI5 | 99S2A5-40MI5 | 99S2A5-40MI5 | 99S2A5-40MI5 |
| Interface female connector heads | IEC 60169-15, EN 122110, MIL-STD-348A, Fig. 310 | IEC 60169-23 | IEC 61169-35 | IEC 61169-40 |
| Frequency | DC to 18 GHz | DC to 26.5 GHz | DC to 40 GHz | DC to 50 GHz |
| Return loss mated PCB contacts and female connector heads | ≥ 25 dB @ DC to 18 GHz | ≥ 20 dB @ DC to 26.5 GHz | ≥ 15 dB @ DC to 40 GHz | ≥ 13 dB @ DC to 50 GHz |
| Mating cycles PCB contacts | ≥ 300 | > 300 | ≥ 300 | ≥ 300 |
| Mating cycles female connector heads | ≥ 500 | > 500 | ≥ 500 | ≥ 500 |



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Certified by ISO/TS 16949 · DIN EN 9100 · ISO 9001 · ISO 14001

Order No.

pA 223483 · Info352ModularFly

1500/2015

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