



All dimensions are in mm; tolerances according to ISO 2768 m-H

**Interface**

Special to mate with

03K701-800L3, 02K702-800L3, 32K701-800L3, 09K701-800L3

**Documents**

PCB layout  
Datasheet  
Datasheet  
Datasheet  
Datasheet

B 526  
03K701-800L3  
02K702-800L3  
32K701-800L3  
09K701-800L3

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Dielectric  
Sealing compound  
Counterplate  
Screws

**Material**

CuBe  
Brass  
PEEK  
Stycast W19  
Brass  
Stainless steel

**Plating**

AuroDur®, gold plated  
AuroDur®, gold plated  
N/A  
AuroDur®, gold plated  
Tuflok coated

# Technical Data Sheet

# Rosenberger

Right angle plug PCB  
50 Ω

## 99S2A5-40ML5

### Electrical data

Impedance	50 Ω
Frequency	DC to 50 GHz
Return loss	≥ 20 dB @ DC to 26,5 GHz ≥ 16 dB @ 26,5 GHz to 35 GHz ≥ 12 dB @ 35 GHz to 50 GHz
Insertion loss	≤ 0.1 x √ f [GHz] dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 1.5 mΩ
Outer contact resistance	≤ 1 mΩ

- Connector only, return loss in application depends decisive on PCB layout and soldering -

### Mechanical data

Mating cycles	min. 50
Center contact captivation: axial	min. 27 N
Center contact captivation: radial	min. 3 Ncm

### Environmental data

Temperature range	-40°C to +125°C
Thermal shock	IEC 61169-1, Subclause 9.4.4
Corrosion	IEC 61169-1, Subclause 9.4.6
Vibration	IEC 61169-1, Subclause 9.3.3
Shock	IEC 61169-1, Subclause 9.3.14
Moisture resistance	IEC 61169-1, Subclause 9.4.3
Max. soldering temperature	IEC 61760-1, +260°C for 10 sec.
RoHS	compliant

### Tooling

N/A

### Suitable cables

N/A

### Weight

2.3 g/pce

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
A. Maiwalder	07.09.16	A. Schadhauser	14.11.17	b00	22-0491	J. Rohloff	28.03.22

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