



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

**Interface**

According to

MIL-STD-348

Mateable with GPPO™ (Gilbert Engineering Co., Inc.)  
and SSMP™ (Connectors Devices, Inc.)

**Documents**

N/A

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Dielectric  
Substrate

**Material**

CuBe  
CuBe  
PTFE  
Al<sub>2</sub>O<sub>3</sub>

**Plating**

Gold, min. 1.27 µm, over nickel  
Gold, min. 0.8 µm, over nickel

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RF\_35/09.14/6.2

# Technical Data Sheet

# Rosenberger

Mini-SMP

Termination  
Plug - Full Detent

**18S15R-0.5E3**

## Electrical data

Impedance	50 $\Omega$
Frequency range	DC to 40 GHz
Return loss	$\geq 26.4$ dB, DC to 18 GHz $\geq 17.7$ dB, 18 GHz to 26.5 GHz $\geq 16.6$ dB, 26.5 GHz to 40 GHz
Power handling	$\leq 0.5$ W

## Mechanical data

Mating cycles	$\geq 100$
Center contact captivation	$\geq 7$ N
Engagement force	
- Full detent	19 N typical
Disengagement force	
- Full detent	29 N typical

## Environmental data

Operating temperature range <sup>1</sup>	0 °C to +125 °C
Storage temperature range	- 55 °C to +155 °C

RoHS compliant

<sup>1</sup> Temperature range over which these specifications are valid.

## Packing

Standard	100 pcs in blister
Weight	0.4 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
Kerstin Herzog	12.07.05	Markus Müller	07.11.16	d00	15-1674	Marion Striegler	07.11.16
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de				Tel. : +49 8684 18-0 Email : info@rosenberger.de			Page 2 / 2

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