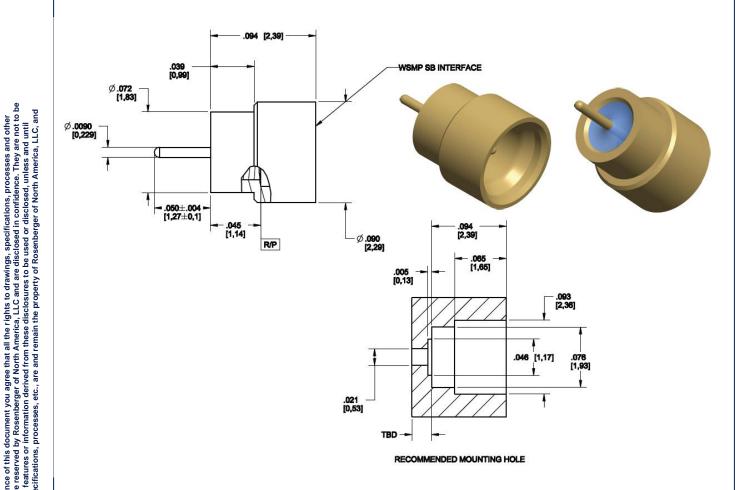
# **Technical Data Sheet**

# Rosenberger

**WSMP** 

Male, Smooth Bore, Solder-In Hermetic Shroud

W1S141-5H0L5



All dimensions are in inches [mm] Unless otherwise specified: XXX±.002, XXXX±.0010

Interface

Rosenberger WSMP™ Interface standards According to

Material and plating

**Connector parts** Material Body and contact

Kovar® per ASTM F15

Corning 7070 Glass Dielectric

**Plating** 

Hard gold, 6µIN [0,15µm] min, over Nickel, 50µIN [1,27 µm] min

Rosenberger of North America, LLC P.O. Box 309 Akron, PA USA 17501 www.rosenbergerna.com

: +1.717.859.8900 : +1.717.859.7044 Email: info@rosenbergerna.com

1/2

Page

# This data sheet is the property of Rosenberger of North America, LLC. By acceptance of this document you agree that all the rights to drawings, specifications, processes and other data therein, as well as the proprietary and novel features of the subject matter, are reserved by Rosenberger of North America, LLC and are disclosed in confidence. They are not to be manufactured, used, sold or disclosed to others, nor are devices embodying such features or information derived from these disclosures to be used or disclosed, unless and until expressly authorized by Rosenberger of North America, LLC. These drawings, specifications, processes, etc., are and remain the property of Rosenberger of North America, LLC, and are not to be copied or reproduced without permission.

## Rosenberger **Technical Data Sheet**

**WSMP** 

Male, Smooth Bore, Solder-In Hermetic Shroud

W1S141-5H0L5

### **Electrical data**

Impedance 50 Ω

Frequency DC to 100 GHz

Return loss (typical)\* ≥ 26 dB, DC to 40 GHz

≥ 19 dB, 40 to 50 GHz  $\leq$  0.12 x  $\sqrt{f(GHz)}dB$ 

Insertion loss  $\geq 3.5 \text{ x} 10^3 \text{ M}\Omega$ Insulation resistance

Center contact resistance  $\leq$  6.0 m $\Omega$ Outer contact resistance  $\leq$  2.0 m $\Omega$ 250 V rms Test voltage (at sea level)

RF High Potential (at sea level) 150 V rms @ 5 MHz

### Mechanical data

Mating cycles

Smooth Bore ≥ 500

Engagement force (typical)

**Full Detent** 2.5 lb<sub>f</sub> [11 N]

Disengagement force (typical)

Full Detent 4.5 lb<sub>f</sub> [20 N]

### Environmental data

Temperature range -55°C to +165°C

Thermal shock MIL-STD-202-107, Condition B

Corrosion MIL-STD-202-101

Vibration MIL-STD-202-204, Condition D Shock MIL-STD-202-213, Condition I Moisture resistance MIL-STD-202-106, except Step 7B

IEC 61760-1, +500°F [+260°C] for 10 seconds Max soldering temperature

 $\leq$  1x10<sup>-8</sup> cc/sec of He @ 1 atm Leakage Rate

2002/95/EC (RoHS) compliant

### **Tooling**

Extraction tool

N/A

### Suitable cables

N/A

### **Packing**

Standard

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
P. Sill	3/13/19	J. Havener	3/13/19	a01	Revised per 19-0001	R. Fisher	4/4/19
Rosenberger of North America, LLC				Tel.	: +1.717.859.8900		Page

P.O. Box 309 Akron, PA USA 17501 www.rosenberger.com

Fax: +1.717.859.7044

Email: info@rosenbergerna.com

2/2

<sup>\*</sup>Connector only, return loss in application depends decisively on PCB layout