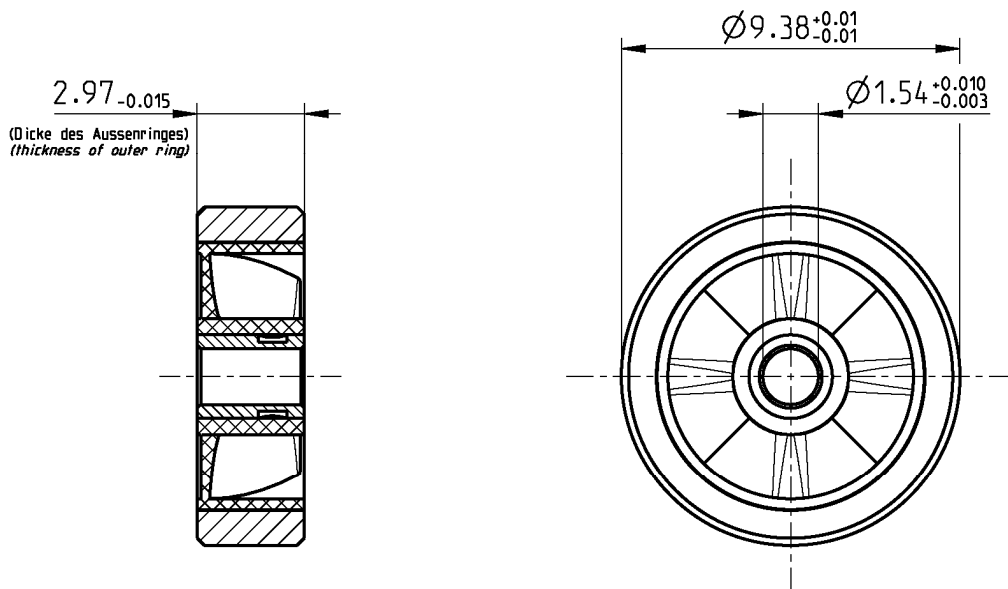




All dimensions are in mm; tolerances according to ISO 2768 m-H

**Interface**

N/A

**Documents**

N/A

**Material and plating****Connector parts**

Center contact  
Outer contact  
Dielectric

**Material**

Brass  
Brass  
PPE

**Plating**

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

# TECHNICAL DATA SHEET

**Rosenberger®**

7 mm 50 Ω MICROWAVE BEAD

**07B003-000**

## Electrical data

|                |                                                  |
|----------------|--------------------------------------------------|
| Impedance      | 50 Ω                                             |
| Frequency      | DC to 18 GHz                                     |
| Return loss    | ≥ 54 dB, DC to 2 GHz<br>≥ 37 dB, 2 GHz to 18 GHz |
| Insertion loss | ≤ 0.02 dB                                        |

## Mechanical data

|                              |            |
|------------------------------|------------|
| Center contact captivation   | ≥ 28 N     |
| Inner/outer ring coplanarity | ± 0.015 mm |

## Environmental data

|                     |                                      |
|---------------------|--------------------------------------|
| Temperature range   | -40°C to +85°C                       |
| Thermal shock       | MIL-STD-202, Method 107, Condition B |
| Corrosion           | MIL-STD-202, Method 101, Condition B |
| Vibration           | MIL-STD-202, Method 204, Condition D |
| Shock               | MIL-STD-202, Method 213, Condition I |
| Moisture resistance | MIL-STD-202, Method 106              |
| 2002/95/EC (RoHS)   | compliant                            |

## Tooling

N/A

## Suitable cables

N/A

## Packing

|          |                       |
|----------|-----------------------|
| Standard | 100 pcs in bag        |
| Weight   | 0.77 g/pce ; 77 g/bag |

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          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------|----------|--------------------------------------------------------------------------------------------------------------------|---------------------------|------------------|---------------|
| Herbert Babinger                                                                                                                                       | 05/08/04 | Levente Szabo | 07/05/12 | c00                                                                                                                | 12-s198                   | Manuela Fuehrich | 07/05/12      |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG<br>P.O.Box 1260 D-84526 Tittmoning Germany<br><a href="http://www.rosenberger.de">www.rosenberger.de</a> |          |               |          | Tel.: +49 8684 18-0<br>Fax: +49 8684 18-499<br>email: <a href="mailto:info@rosenberger.de">info@rosenberger.de</a> |                           |                  | Page<br>2 / 2 |