

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

**General Information**

|                             |               |
|-----------------------------|---------------|
| Magnetic connector          |               |
| Coding                      | mechanical    |
| Number and type of contacts | 15 rigid pins |
| Soldering                   | THT           |

**Interface**

Mating with MultiMag 15 cable assembly

**Material and Plating**

|                        |                 |                         |
|------------------------|-----------------|-------------------------|
| <b>Connector parts</b> | <b>Material</b> | <b>Plating</b>          |
| Insulator              | PBT             | White, similar RAL 9003 |
| Contact                | Brass           | AuroDur®, gold plated   |
| Magnets                | NdFeB N52       | Nickel                  |

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**Flammability Rating**

**Connector parts**

Insulator

**Category**

Uncolored raw material acc. to UL94 V-0\*

\*Please note that a non UL rated color batch is added

**Electrical Data**

Operating voltage  
Operating current

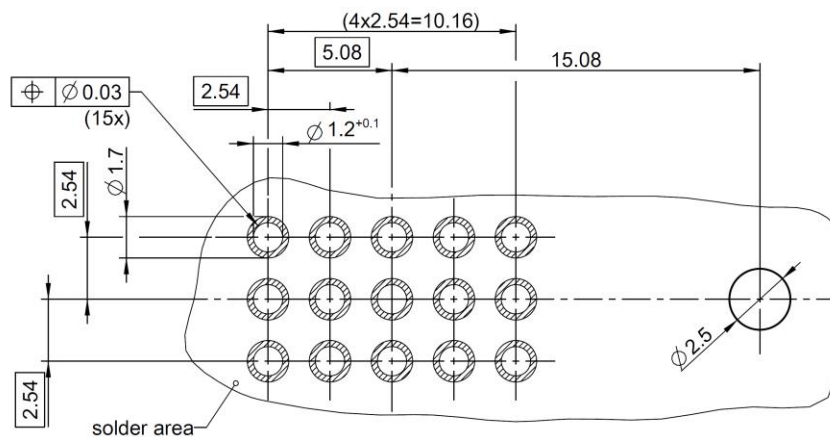
12 V  
max. 4.5 A  
max. 1.5 A per contact  
typically  $\leq 60 \text{ m}\Omega$   
 $\sim 100 \Omega$  differential pairs

**Mechanical Data**

Mating cycles without load  
Mating cycles under load  
Magnetic retention force

min. 10.000  
min. 1.000  
average  $\sim 14 \text{ N}$

**PCB Footprint**



All drill holes plated inclusive pads on the backside (pad width min. 0.2 mm)

The stated dimensions are only recommendations.

**Environmental Data**

Temperature range  
Chemical resistance

-25 °C to +65 °C  
Magnets start losing their magnetic properties above 65 °C  
Isopropanol 70 %

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# Technical Data Sheet

# Rosenberger

MultiMag 15

Receptacle  
(PCB Termination)

**M9K103-400L**

## Compliance

RoHS compliant

## Packing

Standard Weight 25 pcs in blister  
~ 12.5 g/pc

### Caution!

**Magnets can impact the function of pace makers and implantable cardioverter-defibrillators (e.g. actuation of reed switch). Keep a minimum distance of 0.2 m (20 cm) between the magnetic connector and the implanted devices to prevent malfunction and danger to health.**

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     |
|---------|----------|----------------|----------|------|---------------------------|----------|----------|
| H. Wurm | 07.05.15 | T. Scheuerlein | 18.02.19 | a00  | 19-s062                   | S. Doerr | 18.02.19 |

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