

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

Connector parts	Material	Plating
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

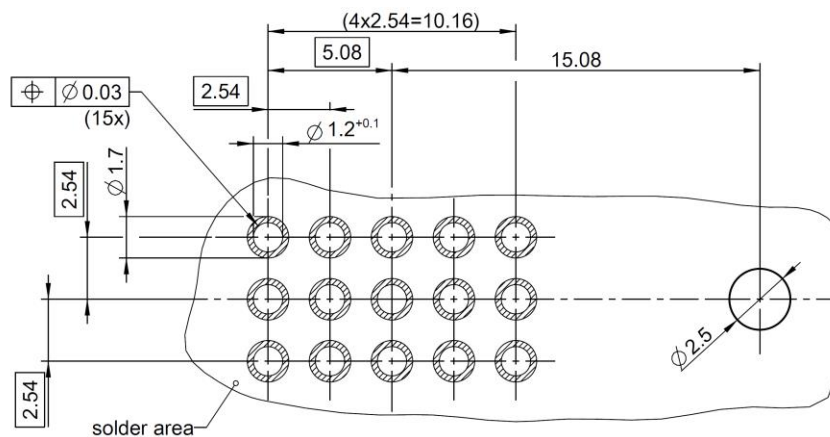
12 V
max. 4.5 A
max. 1.5 A per contact
typically $\leq 60 \text{ m}\Omega$
 $\sim 100 \Omega$ differential pairs

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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