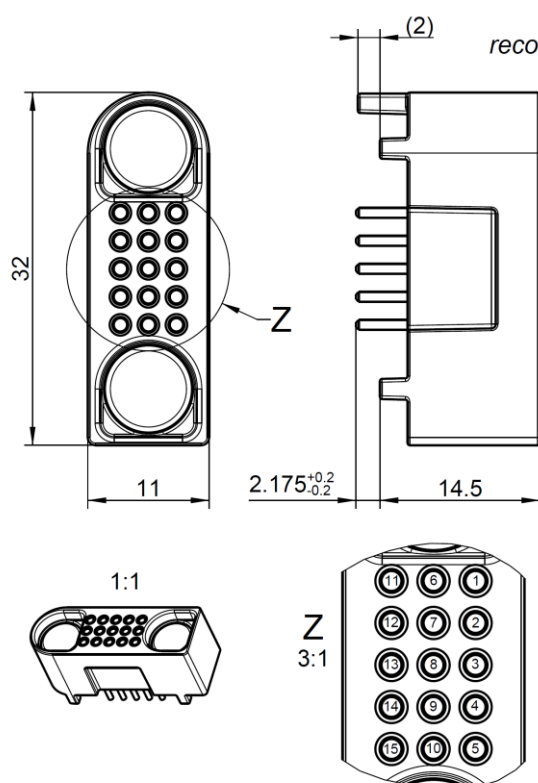


MultiMag 15

Receptacle (PCB Termination)

M9K103-400L



Belegungsplan - PCB Kuppler
recommended face plan - straight jack pcb

Pos.	Signal/ signal
1	D4-
2	D4+
3	DC
4	TX+/D1+
5	TX-/D1-
6	DC-Power+
7	DC-Power+
8	Ground
9	DC-Power-
10	DC-Power-
11	D3-
12	D3+
13	DC
14	RX-/D2-
15	RX+/D2+

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

General Information

Magnetic connector

Coding

Number and type of contacts

Soldering

mechanical

15 rigid pins

THT

Interface

Mating with

MultiMag 15 cable assembly

Material and Plating

Connector parts

Insulator

Contact

Magnets

Material

PBT

Brass

NdFeB N52

Plating

White, similar RAL 9003

AuroDur®[®], gold plated

Nickel

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

12 V

Operating current

max. 4.5 A

max. 1.5 A per contact

Contact resistance

typically $\leq 60 \text{ m}\Omega$

Impedance

$\sim 100 \Omega$ differential pairs

Mechanical Data

Mating cycles without load

min. 10.000

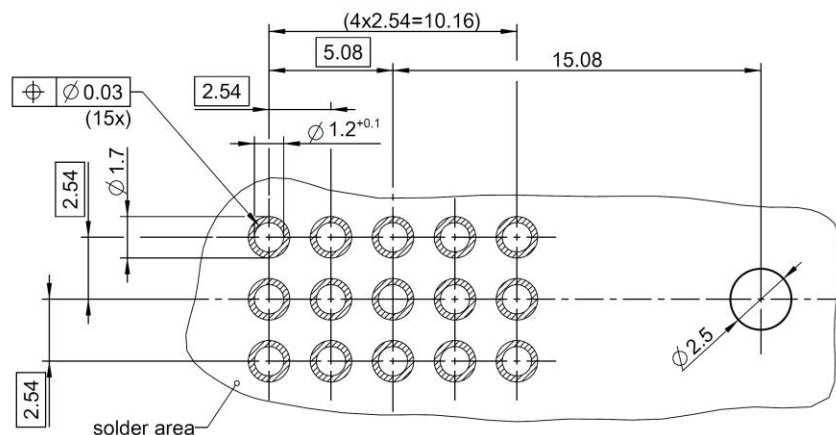
Mating cycles under load

min. 1.000

Magnetic retention force

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

-25 °C to +65 °C

Magnets start losing their magnetic properties above 65 °C

Chemical resistance

Isopropanol 70 %

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RF_35/09.14/6.2

Technical Data Sheet				Rosenberger			
MultiMag 15		Receptacle (PCB Termination)		M9K103-400L			
Compliance RoHScompliant Packing Standard Weight25 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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