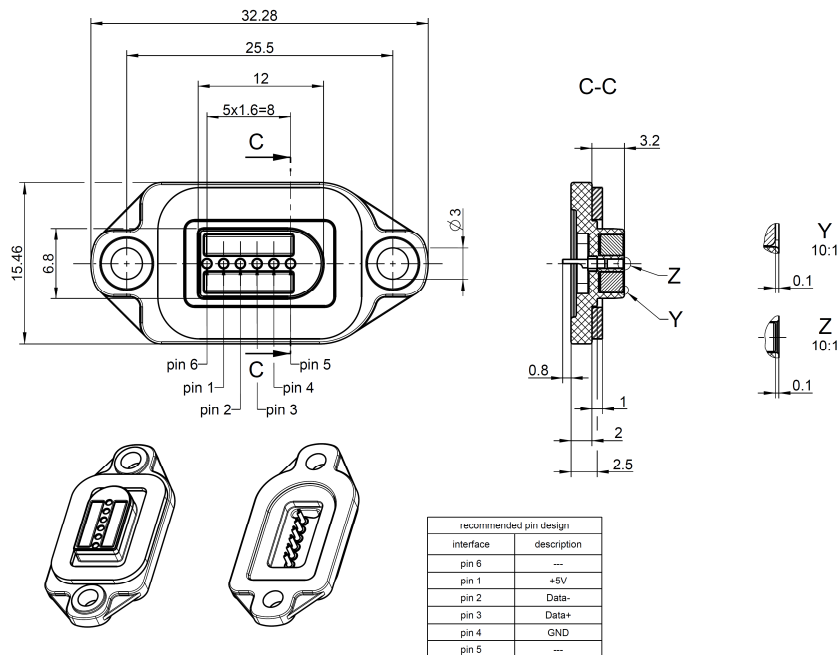


M9

MultiMag 6 Receptacle

**M9K703-299L**



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

### General Information

Magnetic connector  
 Number and type of contacts: 6 rigid pins  
 Soldering: Solder cup for pre-tinned wire  
 Color: Black, similar RAL 9005

### Interface

Mating with: MultiMag 6 cable assembly

### Material and Plating

Connector Parts	Material	Plating/Color
Contacts	Brass	Gold plated
Housing	PBT GF30	Black, similar RAL 9005
Magnets	NdFeB	Nickel plated
Gasket	FVMQ	Black

M9

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**Electrical Data**

Designed for USB 2.0 specification (Use case 1)  
 Maximum voltage 5 V  
 Maximum current 0.5 A

Use case 2  
 Maximum voltage 12 V  
 Maximum current 1 A

**Mechanical Data**

Magnetic disengagement force average ~ 8 N

Mating cycles Use case 1 min. 5.000  
 Mating cycles without load Use case 2 min. 5.000  
 Mating cycles with load Use case 2 min. 2.000

**Environmental Data**

Temperature range -20 °C to +60 °C  
 Magnets start losing their magnetic properties above 65 °C  
 Degree of protection DIN EN 60529, IPX6/IPX7 \*

\*not considering the flange holes. Depending on the application, it may be necessary to seal the flange holes separately.

**Suitable cables**

Solder cup for pre-tinned wire with cross section AWG 26

**Compliance**

RoHS compliant

**Packing**

Standard 50 pcs in blister  
 Weight ~ 2.0 g/pc

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**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
T. Scheuerlein	22.12.15	T. Scheuerlein	24.04.17	600	17-0003	M. Schönsmaul	24.04.17
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RF\_35/05.10/6.0