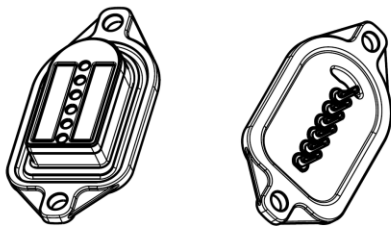
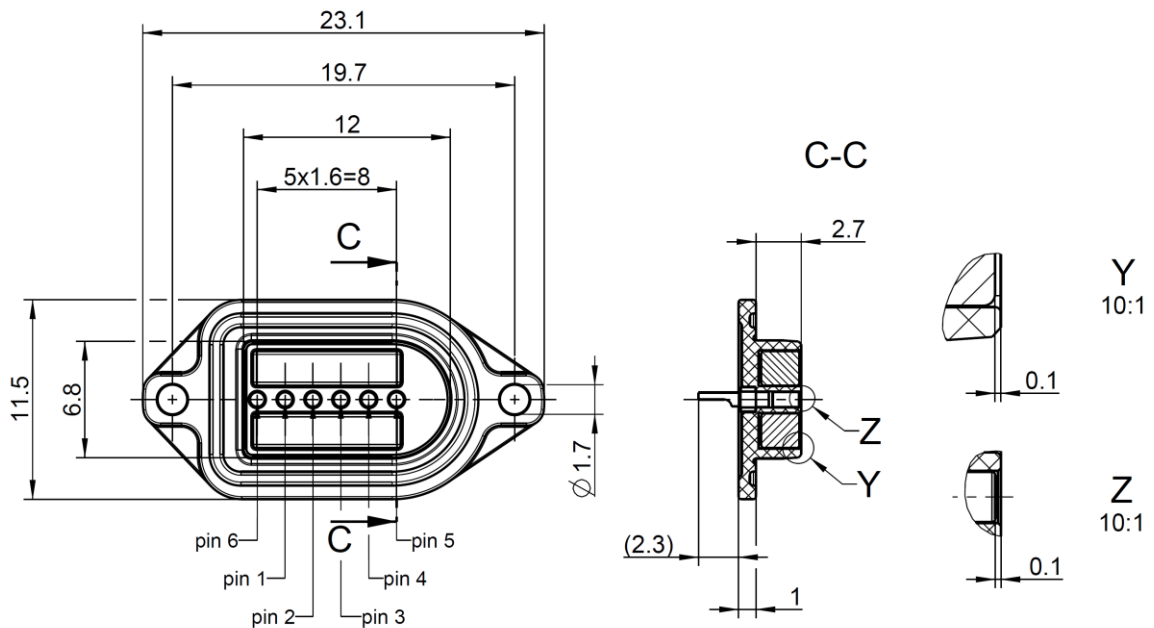


M9

MultiMag 6 Receptacle  
(Solder Cup Termination)

**M9K701-299L**



recommended pin design	
interface	description
pin 6	---
pin 1	+5V
pin 2	Data-
pin 3	Data+
pin 4	GND
pin 5	---

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 with cross section AWG 26  
 Color: Black, similar RAL 9005

**Interface**

Mating with: MultiMag 6 cable assembly

**Material and Plating**

**Connector Parts**

Contacts  
 Housing  
 Magnets

**Material**

Brass  
 PBT GF30  
 NdFeB

**Plating/Color**

Gold plated  
 Black, similar RAL 9005  
 Nickel plated

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 RF\_35/05.10/6.0

M9

MultiMag 6 Receptacle  
(Solder Cup Termination)

**M9K701-299L**

**Electrical Data**

Designed for USB 2.0 specification                      5 V DC, 0.5 A  
 Maximum voltage    24 V DC  
 Maximum current    1 A

**Mechanical Data**

Magnetic disengagement force                              average ~ 8 N  
 Mating cycles without load                                      min. 5.000  
 Expected Mating cycles with load:

Max. Voltage	Max. Current	Mating cycles
5.0 V DC	0.5 A	min. 5.000
12.6 V DC	1.0 A	min. 2.000
24.0 V DC	0.5 A	min. 800

**Environmental Data**

Temperature range    -20 °C to +65 °C  
 Magnets start losing their magnetic properties above 65 °C

**Suitable Cables**

Pre-tinned wire with cross section AWG 26

**Compliance**

RoHS    compliant

**Packing**

Standard    100 pcs in blister  
 Weight    ~ 1 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
C. Kainzmaier	27.04.15	T. Scheuerlein	25.07.17	b02	17-0004	T. Scheuerlein	25.07.17

# Mouser Electronics

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