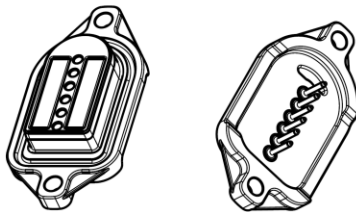
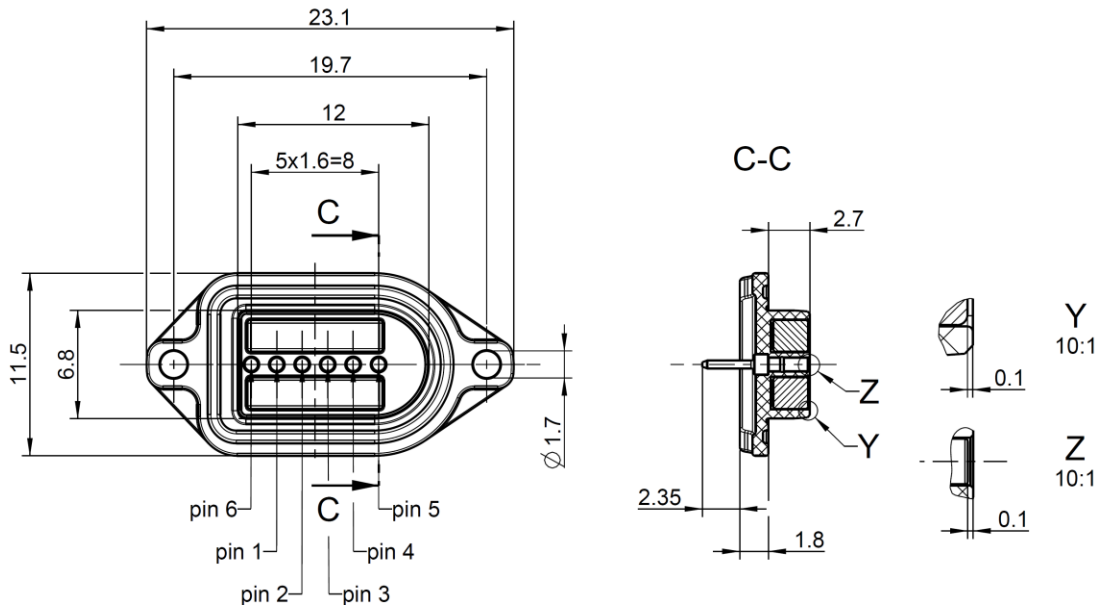


M9

MultiMag 6 Receptacle  
(PCB Termination)

**M9K701-400L**



| 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 THT  
Color Black, similar RAL 9005

### Interface

Mating with MultiMag 6 cable assembly

### Material and Plating

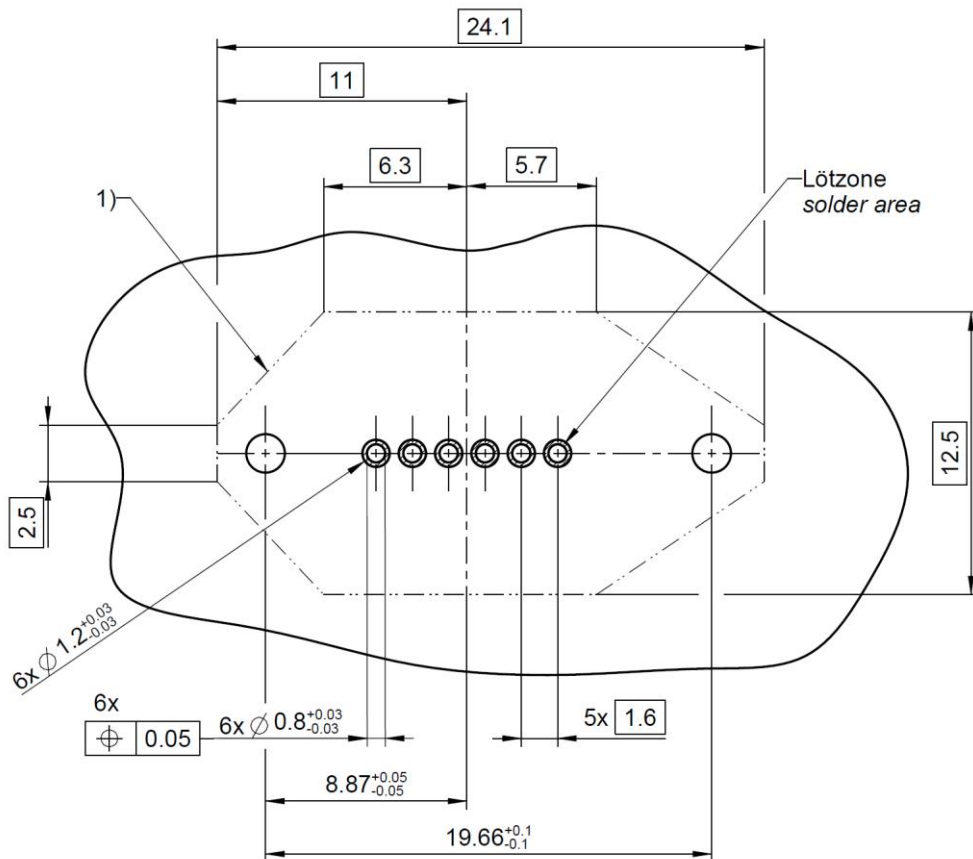
#### Connector Parts

|          |          |                         |
|----------|----------|-------------------------|
| Contacts | Material | Plating/Color           |
| Housing  | Brass    | Gold plated             |
| Magnets  | PBT GF30 | Black, similar RAL 9005 |
|          | NdFeB    | Nickel plated           |

**Electrical Data**

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

**PCB Footprint**



- 1) Keine Bauteile innerhalb dieser Zone erlaubt / no components allowed within this zone
- 2) Die dargestellten Maße sind nur eine Empfehlung / the stated dimensions are only recommendations.
- 3) Alle Bohrungen sowie die Pads auf der Rückseite beschichtet / all drill holes plated inclusive pads on the backside

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M9

MultiMag 6 Receptacle  
(PCB Termination)

**M9K701-400L**

**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

**Compliance**

RoHS    compliant

**Packing**

Standard    100 pcs in blister  
 Weight    ~ 1.1 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     |
|----------------|----------|----------------|----------|------|---------------------------|----------------|----------|
| T. Scheuerlein | 22.06.16 | T. Scheuerlein | 25.07.17 | a02  | 17-0004                   | T. Scheuerlein | 25.07.17 |

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