



PCB Layout \*

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

N/A

AuroDur®, gold plated  
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# TECHNICAL DATA SHEET

**Rosenberger®**

Mini-Coax 4 CHANNEL BLOCK  
STRAIGHT

**MF2C117-40ML5-NM**

## Electrical data

|                                |                                            |
|--------------------------------|--------------------------------------------|
| Impedance                      | 50 Ω                                       |
| Frequency                      | DC to 20 GHz                               |
| Return loss                    | ≥ 25 dB, DC to 2 GHz                       |
| Insertion loss                 | ≤ 0.02 x √f(GHz) dB                        |
| Insulation resistance          | ≥ 1 x10 <sup>3</sup> MΩ                    |
| Center contact resistance      | ≤ 10 mΩ                                    |
| Outer contact resistance       | ≤ 3 mΩ                                     |
| Test voltage (at sea level)    | 750 V rms                                  |
| Working voltage (at sea level) | 500 V rms                                  |
| RF-leakage                     | ≥ 80 dB up to 1 GHz<br>≥ 60 dB up to 4 GHz |

- Connector only, Return loss in application depends decisive on PCB layout -

## Mechanical data

|                  |                        |
|------------------|------------------------|
| Mating cycles    | ≥ 500                  |
| Engagement force | max. 16 N typical 10 N |
| Extraction force | max. 24 N typical 21 N |

## Environmental data

|                            |                                                            |
|----------------------------|------------------------------------------------------------|
| Temperature range          | - 40°C to +125°C                                           |
| Climatic class             | IEC 60068-2-1 40/85/21<br>IEC 60068-2-2<br>IEC 60068-2-3   |
| Mechanical shock           | IEC 60068-2-27 50G halfsinus, 2 shocks/axis during 11 sec. |
| Max. soldering temperature | IEC 61760-1, +260°C for 10 sec.                            |
| 2002/95/EC (RoHS)          | compliant                                                  |
| MR capabilities            | non-magnetic                                               |

## Tooling

N/A

## Suitable cables

N/A

## Packing

|          |                   |
|----------|-------------------|
| Standard | 50 pcs in blister |
| Weight   | 1.8 g/pce         |

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     |
|--------------|----------|--------------|----------|------|---------------------------|--------------|----------|
| F.Michelmann | 15.03.11 | F.Michelmann | 11.04.13 | d00  | 13-0382                   | M. Raethlein | 11.04.13 |

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