

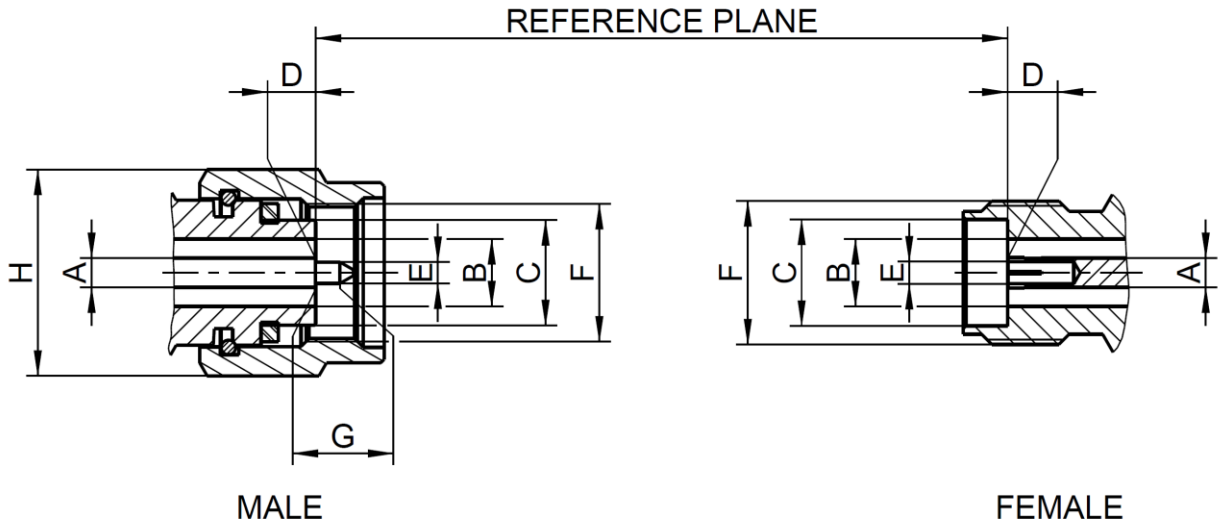
Technical Data

Rosenberger

02

RPC-2.92

02-000-000_TD



All dimensions are in mm

| | Plug (male) | | Jack (female) | |
|-----------------|---------------|-------|-------------------|-------|
| | min. | max. | min. | max. |
| A ¹⁾ | 1.26 | 1.28 | 1.26 | 1.28 |
| B ¹⁾ | 2.91 | 2.93 | 2.91 | 2.93 |
| C | 4.55 | 4.57 | 4.60 | 4.63 |
| D ¹⁾ | 0.005 | 0.080 | 0.005 | 0.080 |
| E | 0.919 | 0.935 | see ²⁾ | |
| F | 1/4-36 UNS-2B | | 1/4-36 UNS-2A | |
| G | 1.02 | 1.12 | --- | ---- |
| H | hex 8 | | --- | |

¹⁾ could be divergent for metrology components

²⁾ Slotted contact; dimensions to meet reflection factor requirements, mating characteristics and connector durability when mated with a 0.919 mm to 0.935 mm pin.

Interface

According to
Mechanically compatible with

IEC 61169-35
RPC-3.50 and SMA

| Draft | Date | Approved | Date | Rev. | Engineering Change Number | Name | Date |
|-----------|----------|-------------|----------|------|---------------------------|----------|----------|
| F. Reiner | 10.10.19 | H. Babinger | 17.12.19 | a00 | 19-1206 | M. Knoll | 17.12.19 |

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Technical Data**Rosenberger**

02

RPC-2.92

02-000-000_TD**Electrical data**

| | |
|--------------------------------|---------------------------------------|
| Impedance | 50 Ω |
| Frequency range | DC to 40 GHz |
| Return loss | see individual product data sheet |
| Insertion loss | see individual product data sheet |
| Insulation resistance | ≥ 5 GΩ |
| Proof voltage (at sea level) | 750 V rms or as limited by used cable |
| Working voltage (at sea level) | 250 V rms or as limited by used cable |
| RF-leakage | ≥ 100 dB up to 1 GHz |

Mechanical data

| | |
|-----------------------------------|--------------------|
| Mating cycles | ≥ 500 |
| Center contact captivation: axial | ≥ 20 N |
| radial | ≥ 0.01 Nm |
| Coupling torque recommended | 0.80 Nm to 1.10 Nm |
| Coupling test torque | 1.70 Nm |

Environmental data

| | |
|----------------------|--------------------------------------|
| Temperature range | -40 °C to +85 °C |
| Thermal shock | MIL-STD-202, Method 107, Condition B |
| Corrosion resistance | MIL-STD-202, Method 101, Condition B |
| Vibration | MIL-STD-202, Method 204, Condition D |
| Shock | MIL-STD-202, Method 213, Condition I |
| Moisture resistance | MIL-STD-202, Method 106 |
| RoHS | compliant |

Materials ³⁾**Connector parts**

| | |
|----------------|-----------------|
| Center contact | CuBe |
| Outer contact | Stainless steel |
| Dielectric | PS, PEEK |
| Gasket | Silicone |

Plating

Gold, min. 1.27 μm, over chem. nickel
Passivated

³⁾ These are standard materials from which deviations are possible. Please see individual product datasheet for used materials

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| | | | | | | | |
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