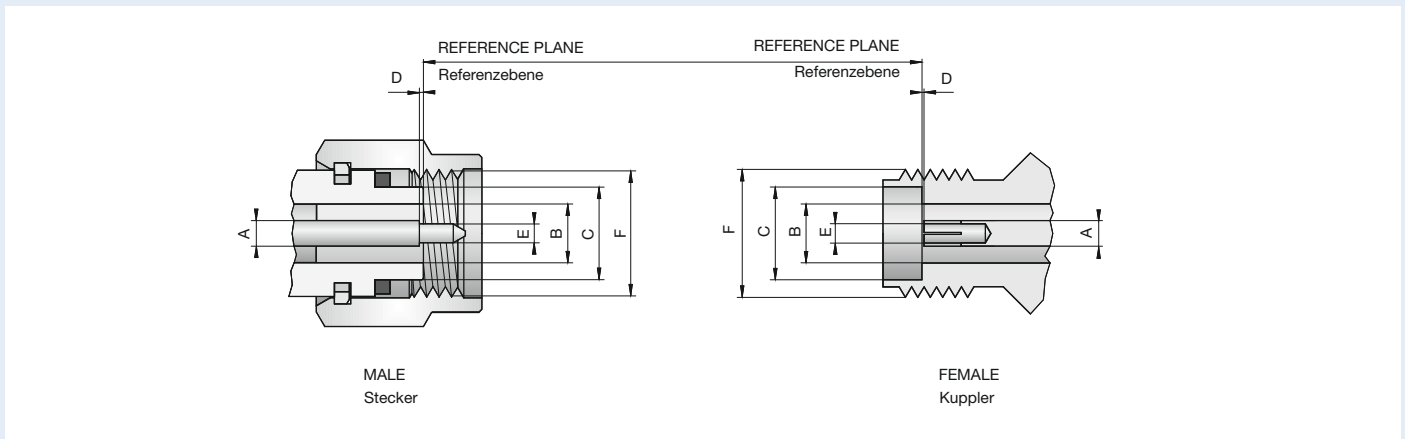


**Interface Dimensions Series RPC-2.92 (code 02)**



**Series RPC-2.92**

| dimension | Male   Stecker |      | Female   Kuppler |      |
|-----------|----------------|------|------------------|------|
|           | min.           | max. | min.             | max. |
| A         | 1.26           | 1.28 | 1.26             | 1.28 |
| B         | 2.91           | 2.93 | 2.91             | 2.93 |
| C         | 4.57           | 4.59 | 4.62             | 4.65 |
| D         | 0.00           | 0.08 | 0.00             | 0.08 |
| E         | 0.91           | 0.93 | 0.96             | 0.98 |
| F         | 1/4-36UNS-2B   |      | 1/4-36UNS-2A     |      |

## Technical Data Series RPC-2.92

| <b>Applicable standards   Anwendbare Standards</b>                   |                                      |
|----------------------------------------------------------------------|--------------------------------------|
| Mechanically compatible with   <i>Mechanisch kompatibel mit</i>      | RPC-3.50 and SMA                     |
| <b>Electrical data   Elektrische Daten</b>                           |                                      |
| Impedance   <i>Wellenwiderstand</i>                                  | 50 $\Omega$                          |
| Frequency range   <i>Frequenzbereich</i>                             | DC to 40 GHz                         |
| Return loss (connector head)   <i>Rückflußdämpfung (Steckerkopf)</i> | $\geq 23$ dB, DC to 40 GHz           |
| Insertion loss (connector head)   <i>Dämpfung (Steckerkopf)</i>      | $\leq 0.04$ dB x $f$ [GHz]           |
| Insulation resistance   <i>Isolationswiderstand</i>                  | $\geq 5$ G $\Omega$                  |
| Center contact resistance   <i>Übergangswiderstand Innenleiter</i>   | $\leq 3.0$ m $\Omega$                |
| Outer contact resistance   <i>Übergangswiderstand Außenleiter</i>    | $\leq 2.0$ m $\Omega$                |
| Test voltage   <i>Prüfspannung</i>                                   | 750 V rms                            |
| Working voltage   <i>Betriebsspannung</i>                            | 250 V rms                            |
| RF-leakage   <i>Schirmdämpfung</i>                                   | $\geq 100$ dB up to 1 GHz            |
| <b>Mechanical data   Mechanische Daten</b>                           |                                      |
| Mating cycles   <i>Steckzyklen</i>                                   | $\geq 500$                           |
| Center contact captivation   <i>Innenleiter Haltekraft</i>           | $\geq 22$ N                          |
| Coupling torque recommended   <i>Anzugsdrehmoment empfohlen</i>      | 0.80 Nm to 1.10 Nm                   |
| Coupling test torque   <i>Prüfdrehmoment</i>                         | 1.70 Nm                              |
| <b>Environmental data   Umweltdaten</b>                              |                                      |
| Temperature range   <i>Temperaturbereich</i>                         | -40 °C to +85 °C                     |
| Thermal shock   <i>Temperaturzyklen</i>                              | MIL-STD 202, Method 107, Condition B |
| Corrosion resistance   <i>Korrosionsbeständigkeit</i>                | MIL-STD 202, Method 101, Condition B |
| Vibration   <i>Vibration</i>                                         | MIL-STD 202, Method 204, Condition D |
| Shock   <i>Schock</i>                                                | MIL-STD 202, Method 213, Condition I |
| Moisture resistance   <i>Feuchtigkeitsbeständigkeit</i>              | MIL-STD 202, Method 106              |
| Max. soldering temperature   <i>Maximale Löttemperatur</i>           | IEC 61760-1, +260 °C for 10 sec.     |
| <b>Materials   Materialien</b>                                       |                                      |
| Center contact   <i>Innenleiter</i>                                  | Beryllium copper, gold-plated        |
| Outer contact   <i>Außenleiter</i>                                   | Stainless steel, passivated plating  |
| Dielectric   <i>Dielektrikum</i>                                     | PS, PEEK                             |
| Gasket   <i>Dichtung</i>                                             | Silicone                             |

Rosenberger-connectors fulfill in principle the indicated data of the Technical Data. Individual values of connectors may deviate depending upon application, design, type of cable, assembly method and execution. Specific data sheets for particular products can be provided on request from your Rosenberger sales partner.

*Rosenberger-Steckverbinder erfüllen grundsätzlich die in den Technischen Daten angegebenen Daten. Je nach Anwendung, Bauart, Kabeltyp, Montageart und -ausführung können einzelne Werte von Steckverbindern hiervon abweichen. Spezifische Datenblätter zu einzelnen Produkten erhalten Sie auf Anfrage von Ihrem Rosenberger-Ansprechpartner.*

**Connector Heads**

Straight Plug

| Ordering Number | Remarks   | Return Loss                 |  |
|-----------------|-----------|-----------------------------|--|
| 02 S 121-000 S3 | with bead | $\geq 23$ dB @ DC to 40 GHz |  |

Straight Jack

| Ordering Number | Remarks   | Return Loss                 |  |
|-----------------|-----------|-----------------------------|--|
| 02 K 121-000 S3 | with bead | $\geq 23$ dB @ DC to 40 GHz |  |

## Cable Connectors Semi-Rigid Cable

Straight Plug, solder

Semi-Rigid

| Ordering Number | Return Loss                                                                                     | Cable Group | Assembly Instruction |  |
|-----------------|-------------------------------------------------------------------------------------------------|-------------|----------------------|--|
| 02 S 141-271 E4 | $\geq 30$ dB @ DC to 4 GHz<br>$\geq 22$ dB @ 4 GHz to 32 GHz<br>$\geq 20$ dB @ 32 GHz to 40 GHz | 71          | 02 A5                |  |
| 02 S 141-2W9 E4 | $\geq 30$ dB @ DC to 4 GHz<br>$\geq 22$ dB @ 4 GHz to 32 GHz<br>$\geq 20$ dB @ 32 GHz to 40 GHz | W9          | 02 A8                |  |
| 02 S 121-271 S3 | $\geq 23$ dB @ DC to 40 GHz                                                                     | 71          | 02 A3                |  |

Straight Jack, solder

Semi-Rigid

| Ordering Number | Return Loss                 | Cable Group | Assembly Instruction |  |
|-----------------|-----------------------------|-------------|----------------------|--|
| 02 K 121-271 S3 | $\geq 23$ dB @ DC to 40 GHz | 71          | 02 A3                |  |

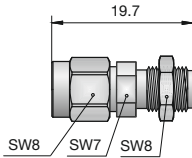
Panel Jack, 4-hole flange

Semi-Rigid

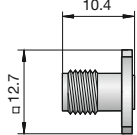
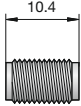
| Ordering Number | Return Loss                 | Cable Group | Assembly Instruction | Panel Piercing / PCB Layout |  |
|-----------------|-----------------------------|-------------|----------------------|-----------------------------|--|
| 02 K 421-271 S3 | $\geq 23$ dB @ DC to 40 GHz | 71          | 02 A3                | MB 55                       |  |

**Panel Connectors**

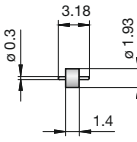
Panel Plug

| Ordering Number | Remarks                                                                          | Return Loss                 |                                                                                     |
|-----------------|----------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------|
| 02 S 521-800 S3 | without glass bead,<br>for hermetic sealed glass bead pin 0.3 mm<br>02 Z 101-000 | $\geq 19$ dB @ DC to 40 GHz |  |

Panel Jack

| Ordering Number | Remarks                                                                          | Return Loss                                                | Panel Piercing / PCB Layout | Packing Unit |                                                                                     |
|-----------------|----------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------|--------------|-------------------------------------------------------------------------------------|
| 02 K 421-800 S3 | without glass bead,<br>for hermetic sealed glass bead pin 0.3 mm<br>02 Z 101-000 | $\geq 23$ dB @ DC to 34 GHz<br>$\geq 19$ dB @ 34 to 40 GHz | MB 55                       | 100 blister  |  |
| 02 K 526-800 S3 | without glass bead,<br>for hermetic sealed glass bead pin 0.3 mm<br>02 Z 101-000 | $\geq 23$ dB @ DC to 34 GHz<br>$\geq 19$ dB @ 34 to 40 GHz |                             | 100 blister  |  |

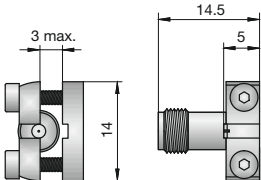
Glass Bead

| Ordering Number | Remarks         | Return Loss                 |                                                                                                         |
|-----------------|-----------------|-----------------------------|---------------------------------------------------------------------------------------------------------|
| 02 Z 101-000    | hermetic sealed | $\geq 19$ dB @ DC to 40 GHz | <br>extended scale |

**PCB Connectors SMD**

Right Angle Panel Jack, edge mount

SMD

| Ordering Number | Remarks                  | Return Loss                 | Panel Piercing / PCB Layout |                                                                                       |
|-----------------|--------------------------|-----------------------------|-----------------------------|---------------------------------------------------------------------------------------|
| 02 K 243-40M E3 | for various PCB's 0-3 mm | $\geq 14$ dB @ DC to 40 GHz | MB 208                      |  |

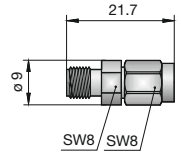
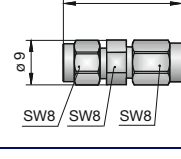
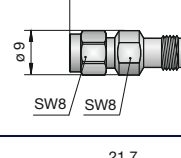
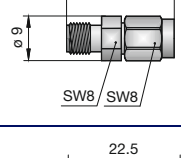
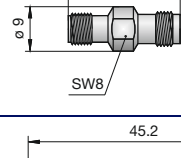
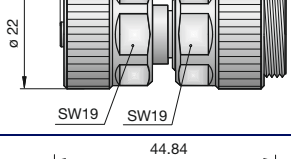
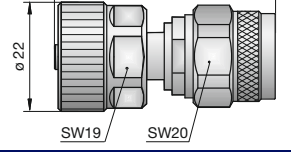
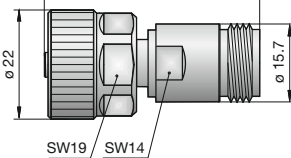
## Adaptors

Adaptor (In Series)

| Ordering Number  | Version  | Remarks                                                 | Return Loss                                                    | Panel Piercing / PCB Layout |  |
|------------------|----------|---------------------------------------------------------|----------------------------------------------------------------|-----------------------------|--|
| 02 S 121-S00 S3  | straight | RPC-2.92 male - male                                    | $\geq 21$ dB @ DC to 40 GHz                                    |                             |  |
| 02 S 121-S20 S3  | straight | RPC-2.92 male - male, calibration adaptor               | $\geq 32$ dB @ DC to 4 GHz<br>$\geq 25$ dB @ 4 GHz to 40 GHz   |                             |  |
| 02 S 121-K00 S3  | straight | RPC-2.92 male - female                                  | $\geq 21$ dB @ DC to 40 GHz                                    |                             |  |
| 02 S 121-K20 S3  | straight | RPC-2.92 male - female, calibration adaptor             | $\geq 32$ dB @ DC to 4 GHz,<br>$\geq 25$ dB @ 4 to 40 GHz      |                             |  |
| 02 S 422-S00 S3  | straight | RPC-2.92 male-male, ruggedized, 4-hole flange           | $\geq 23$ dB @ DC to 18 GHz<br>$\geq 17$ dB @ 18 GHz to 40 GHz |                             |  |
| 02 K 121-K00 S3  | straight | RPC-2.92 female - female                                | $\geq 21$ dB @ DC to 40 GHz                                    |                             |  |
| 02 K 121-K20 S3  | straight | RPC-2.92 female - female, calibration adaptor           | $\geq 32$ dB @ DC to 4 GHz<br>$\geq 25$ dB @ 4 GHz to 40 GHz   |                             |  |
| 02 K 521-S00 S3  | straight | RPC-2.92 female - male, round flange                    | $\geq 19$ dB @ DC to 40 GHz                                    | MB 107                      |  |
| 02 K 621-K00 S3  | straight | RPC-2.92 female - female, hexagonal flange              | $\geq 21$ dB @ DC to 40 GHz                                    | MB 56                       |  |
| 02 K 641-KH0 S3  | straight | RPC-2.92 female - female, round flange, hermetic sealed | $\geq 15.5$ dB @ DC to 40 GHz                                  | MB 58                       |  |
| 02 KR 121-S00 S3 | straight | RPC-2.92 female, ruggedized - male                      | $\geq 21$ dB @ DC to 40 GHz                                    |                             |  |
| 02 KR 121-K00 S3 | straight | RPC-2.92 female, ruggedized - female                    | $\geq 21$ dB @ DC to 40 GHz                                    |                             |  |

## Adaptor (Inter Series)

| Ordering Number | Version  | Remarks                           | Return Loss                                                                                   |  |
|-----------------|----------|-----------------------------------|-----------------------------------------------------------------------------------------------|--|
| 02 S 118-S00 S3 | straight | RPC-2.92 male - Mini-SMP male     | $\geq 30$ dB @ DC to 12 GHz<br>$\geq 26$ dB @ 12 to 20 GHz<br>$\geq 18$ dB @ 20 to 40 GHz     |  |
| 02 S 118-K00 S3 | straight | RPC-2.92 male - Mini-SMP female   | $\geq 30$ dB @ DC to 12 GHz<br>$\geq 26$ dB @ 12 to 20 GHz<br>$\geq 18$ dB @ 20 to 40 GHz     |  |
| 02 K 118-S00 S3 | straight | RPC-2.92 female - Mini-SMP male   | $\geq 30$ dB @ DC to 12 GHz<br>$\geq 26$ dB @ 12 to 20 GHz<br>$\geq 18$ dB @ 20 to 40 GHz     |  |
| 02 K 118-K00 S3 | straight | RPC-2.92 female - Mini-SMP female | $\geq 30$ dB @ DC to 12 GHz<br>$\geq 26$ dB @ 12 to 20 GHz<br>$\geq 18$ dB @ 20 to 40 GHz     |  |
| 02 S 119-S00 E3 | straight | RPC-2.92 male - SMP male          | $\geq 32$ dB @ DC to 12 GHz<br>$\geq 26$ dB @ 12 to 26.5 GHz<br>$\geq 21$ dB @ 26.5 to 40 GHz |  |
| 02 S 119-K00 E3 | straight | RPC-2.92 male - SMP female        | $\geq 32$ dB @ DC to 12 GHz<br>$\geq 26$ dB @ 12 to 26.5 GHz<br>$\geq 21$ dB @ 26.5 to 40 GHz |  |
| 02 K 119-S00 E3 | straight | RPC-2.92 female - SMP male        | $\geq 32$ dB @ DC to 12 GHz<br>$\geq 26$ dB @ 12 to 26.5 GHz<br>$\geq 21$ dB @ 26.5 to 40 GHz |  |
| 02 K 119-K00 E3 | straight | RPC-2.92 female - SMP female      | $\geq 32$ dB @ DC to 12 GHz<br>$\geq 26$ dB @ 12 to 26.5 GHz<br>$\geq 21$ dB @ 26.5 to 40 GHz |  |
| 02 S 108-S00 S3 | straight | RPC-2.92 male - RPC-1.85 male     | $\geq 19$ dB @ DC to 40 GHz                                                                   |  |
| 02 S 108-K00 S3 | straight | RPC-2.92 male - RPC-1.85 female   | $\geq 19$ dB @ DC to 40 GHz                                                                   |  |

| Ordering Number  | Version  | Remarks                                         | Return Loss                 |                                                                                       |
|------------------|----------|-------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------|
| 02 K 108-S00 S3  | straight | RPC-2.92 female - RPC-1.85 male                 | $\geq 19$ dB @ DC to 40 GHz |    |
| 02 K 108-K00 S3  | straight | RPC-2.92 female - RPC-1.85 female               | $\geq 19$ dB @ DC to 40 GHz |    |
| 02 S 109-S00 S3  | straight | RPC-2.92 male - RPC-2.40 male                   | $\geq 19$ dB @ DC to 40 GHz |    |
| 02 S 109-K00 S3  | straight | RPC-2.92 male - RPC-2.40 female                 | $\geq 19$ dB @ DC to 40 GHz |    |
| 02 K 109-S00 S3  | straight | RPC-2.92 female - RPC-2.40 male                 | $\geq 19$ dB @ DC to 40 GHz |   |
| 02 K 109-K00 S3  | straight | RPC-2.92 female - RPC-2.40 female               | $\geq 19$ dB @ DC to 40 GHz |  |
| 02 KR 107-P00 S3 | straight | RPC-2.92 female, ruggedized - RPC-7             | $\geq 28$ dB @ DC to 18 GHz |  |
| 02 KR 105-S00 S3 | straight | RPC-2.92 female, ruggedized - RPC-N 50 Ω male   | $\geq 26$ dB @ DC to 18 GHz |  |
| 02 KR 105-K00 S3 | straight | RPC-2.92 female, ruggedized - RPC-N 50 Ω female | $\geq 26$ dB @ DC to 18 GHz |  |



**Interchangeable Port Connector System**

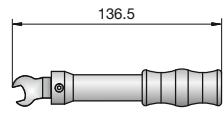
RPC 2.92 - RPC-SL 40 GHz

| Ordering Number | Version  | Remarks                              | Return Loss                                                    |  |
|-----------------|----------|--------------------------------------|----------------------------------------------------------------|--|
| 02 S 1P4-S00 S3 | straight | RPC-2.92 male - RPC-SL 40 GHz male   | $\geq 21$ dB @ DC to 26.5 GHz<br>$\geq 19$ dB @ 26.5 to 40 GHz |  |
| 02 K 1P4-S00 S3 | straight | RPC-2.92 female - RPC-SL 40 GHz male | $\geq 21$ dB @ DC to 26.5 GHz<br>$\geq 19$ dB @ 26.5 to 40 GHz |  |

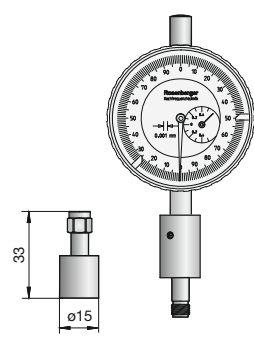
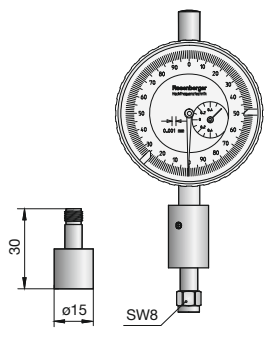
see also chapter interchangeable port connector system

## Tools

Torque Wrench

| Ordering Number | Remarks                                                                |                                                                                     |
|-----------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 03 W 021-000    | flat 8 mm - 0.9 Nm torque for RPC-3.50 , RPC- 2.92, RPC-2.40, RPC-1.85 |  |

Gauge

| Ordering Number | Remarks                                                                     |                                                                                      |
|-----------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 03 W 00S-000    | compatible to male connectors for RPC-3.50, RPC-2.92<br>incl. gauge block   |   |
| 03 W 00K-000    | compatible to female connectors for RPC-3.50, RPC-2.92<br>incl. gauge block |  |

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