

For VNA Test Applications

## Test Port Adaptors

TEST & MEASUREMENT





## Test Port Adaptors for VNA Applications

Rosenberger offers a wide range of ruggedized test port adaptors for VNA (**V**ector **N**etwork **A**nalyzer) test applications. Designed to connect directly with a ruggedized coupling nut to the VNA test port, high-quality test port adaptors from Rosenberger open up a lot of advantages:

- Usable for all common Vector Network Analyzers
- Reliable protection of VNA test ports
- Cost saving by reducing VNA down times, minimizing repair costs
- Excellent measurement performance due to restricted connection dimensions on the adaptor DUT side
- Reliable measurements of the devices (and not of the complete test arrangement)





## Products

The spectrum includes RPC-3.50, RPC-2.92, RPC-2.40 and RPC-1.85 adaptors, available as "in series" and "inter series" versions.

- Female types:  
mateable with all common VNA test ports and all common standard series
- Male types:  
mateable with all common standard series, e.g. with ruggedized female connectors and non-ruggedized female connectors





## RPC-3.50

### RPC-3.50 Test Port Adaptors

RPC-3.50 test port adaptors – interface to IEC 60169-23 – are intermateable with APC-3.50, GPC-3.50, SMA, K and RPC-2.92 connectors. These test port adaptors operate with frequencies up to 18 GHz or 26.5 GHz. There are "in series" adaptors as well as "inter series" adaptors available – RPC-3.50 to RPC-N and RPC-7.

#### In Series Adaptors

Rosenberger No.	Type	Return Loss
03KR121-K0AS3	RPC-3.50 female, ruggedized – female	$\geq 26$ dB, DC to 26.5 GHz
03KR121-S0AS3	RPC-3.50 female, ruggedized – male	$\geq 26$ dB, DC to 26.5 GHz
03KR121-SR00S3	RPC-3.50 female, ruggedized – male, ruggedized	$\geq 26$ dB, DC to 26.5 GHz

#### Inter Series Adaptors

Rosenberger No.	Type	Return Loss
03KR105-K0AS3	RPC-3.50 female, ruggedized – RPC-N female	$\geq 26$ dB, DC to 18 GHz
03KR105-S0AS3	RPC-3.50 female, ruggedized – RPC-N male	$\geq 26$ dB, DC to 18 GHz
03KR107-P0AS3	RPC-3.50 female, ruggedized – RPC-7	$\geq 28$ dB, DC to 18 GHz



## RPC-2.92

### RPC-2.92 Test Port Adaptors

RPC-2.92 test port adaptors – interface to IEC 61169-35 – are intermateable with APC-3.50, GPC-3.50, SMA, K and RPC-3.50 connectors. These test port adaptors operate with frequencies up to 18 GHz or 40 GHz. There are "in series" adaptors as well as "inter series" adaptors available – RPC-2.92 to RPC-N and RPC-7.

#### In Series Adaptors

Rosenberger No.	Type	Return Loss
02KR121-K0AS3	RPC-2.92 female, ruggedized – female	≥ 26 dB, DC to 26.5 GHz ≥ 23 dB, 26.5 GHz to 40 GHz
02KR121-S0AS3	RPC-2.92 female, ruggedized – male	≥ 26 dB, DC to 26.5 GHz ≥ 23 dB, 26.5 GHz to 40 GHz
02KR121-SR00S3	RPC-2.92 female, ruggedized – male, ruggedized	≥ 26 dB, DC to 26.5 GHz ≥ 23 dB, 26.5 GHz to 40 GHz

#### Inter Series Adaptors

Rosenberger No.	Type	Return Loss
02KR105-K0AS3	RPC-2.92 female, ruggedized – RPC-N female	≥ 26 dB, DC to 18 GHz
02KR105-S0AS3	RPC-2.92 female, ruggedized – RPC-N male	≥ 26 dB, DC to 18 GHz
02KR107-P0AS3	RPC-2.92 female, ruggedized – RPC-7	≥ 28 dB, DC to 18 GHz
02KR109-K0AS3	RPC-2.92 female, ruggedized – RPC-2.40 female	≥ 26 dB, DC to 18 GHz ≥ 23 dB, 18 GHz to 40 GHz
02KR109-S0AS3	RPC-2.92 female, ruggedized – RPC-2.40 male	≥ 26 dB, DC to 18 GHz ≥ 23 dB, 18 GHz to 40 GHz



## RPC-2.40

### RPC-2.40 Test Port Adaptors

RPC-2.40 test port adaptors – interface to IEC 61169-40 – are intermateable with APC-2.40, OS 50, HP-2.40 or RPC-1.85 and V connectors. These test port adaptors operate with frequencies up to 18 GHz, 40 GHz or 50 GHz. There are "in series" adaptors as well as "inter series" adaptors available – RPC-2.40 to RPC-N, RPC-7 and RPC-2.92.

#### In Series Adaptors

Rosenberger No.	Type	Return Loss
09KR121-K0AS3	RPC-2.40 female, ruggedized – female	≥ 26 dB, DC to 26.5 GHz ≥ 23 dB, 26.5 GHz to 50 GHz
09KR121-S0AS3	RPC-2.40 female, ruggedized – male	≥ 26 dB, DC to 26.5 GHz ≥ 23 dB, 26.5 GHz to 50 GHz
09KR121-SR00S3	RPC-2.40 female, ruggedized – male, ruggedized	≥ 26 dB, DC to 26.5 GHz ≥ 23 dB, 26.5 GHz to 50 GHz

#### Inter Series Adaptors

Rosenberger No.	Type	Return Loss
09KR102-K0AS3	RPC-2.40 female, ruggedized – RPC-2.92 female	≥ 26 dB, DC to 18 GHz ≥ 23 dB, 18 GHz to 40 GHz
09KR102-S0AS3	RPC-2.40 female, ruggedized – RPC-2.92 male	≥ 26 dB, DC to 18 GHz ≥ 23 dB, 18 GHz to 40 GHz
09KR105-K0AS3	RPC-2.40 female, ruggedized – RPC-N female	≥ 26 dB, DC to 18 GHz
09KR105-S0AS3	RPC-2.40 female, ruggedized – RPC-N male	≥ 26 dB, DC to 18 GHz
09KR107-P0AS3	RPC-2.40 female, ruggedized – RPC-7	≥ 26 dB, DC to 18 GHz



## RPC-1.85

### RPC-1.85 Test Port Adaptors

RPC-1.85 test port adaptors – interface to IEC 61169-32 – are intermateable with V or RPC-2.40, APC-2.40, OS 50 and HP-2.40 connectors. These test port adaptors operate with frequencies up to 70 GHz. Available are "in series" adaptors, types female – female and female – male.

#### In Series Adaptors

Rosenberger No.	Type	Return Loss
08KR121-K0AS3	RPC-1.85 female, ruggedized – female	$\geq 28$ dB, DC to 18 GHz $\geq 21$ dB, 18 GHz to 50 GHz $\geq 17$ dB, 50 GHz to 70 GHz
08KR121-S0AS3	RPC-1.85 female, ruggedized – male	$\geq 28$ dB, DC to 18 GHz $\geq 21$ dB, 18 GHz to 50 GHz $\geq 17$ dB, 50 GHz to 70 GHz
08KR121-SR00S3	RPC-1.85 female, ruggedized – male, ruggedized	$\geq 28$ dB, DC to 18 GHz $\geq 21$ dB, 18 GHz to 50 GHz $\geq 17$ dB, 50 GHz to 70 GHz



## Website

For more information refer to our website:  
[www.rosenberger.com/t&m/equipment](http://www.rosenberger.com/t&m/equipment)

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