RFB 2000, RFC 2010 or 2020, NRS 1200-HP
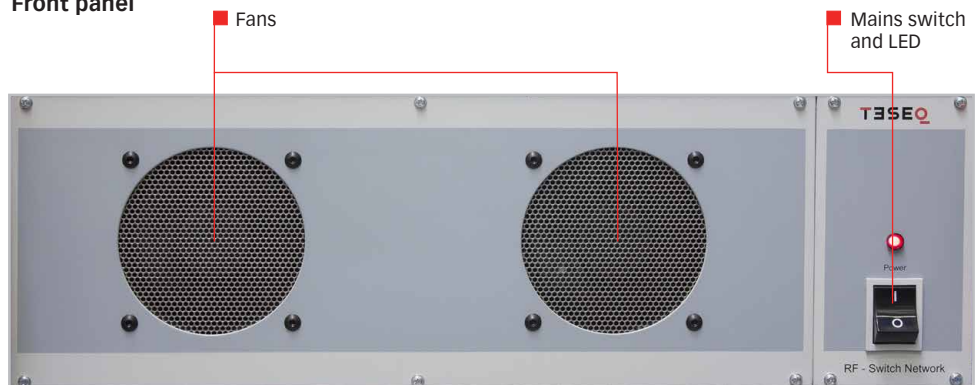# RF SWITCH NETWORK, HIGH POWER

RF Switch network for high power, view to the front panel

The RF switch network can be configured to switch RF signals in a wide range of automatic test systems. The 3HU rack consists of a power supply and remote interface and can accept up to four high power switch modules. Each switch can be individually controlled through RS 232 or USB interface to ensure maximum flexibility in the test system.

All RF switches are high quality with an operating lifetime of at least one million operations. While able to pass high power levels, they are designed to switch only during absence of RF power.

- ■ **Applicable for various RF systems**
- ■ **Modular system, extendable**
- ■ **High power switches**
- ■ **RS 232 or USB remote interface**
- ■ **High quality switches**

Front panel

■ Fans

■ Mains switch and LED

View to the back panel, example with RS232 interface, 3x 2 to 1 switch type NRS 1200-HP

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RF SWITCH NETWORK, HIGH POWER

Back panel
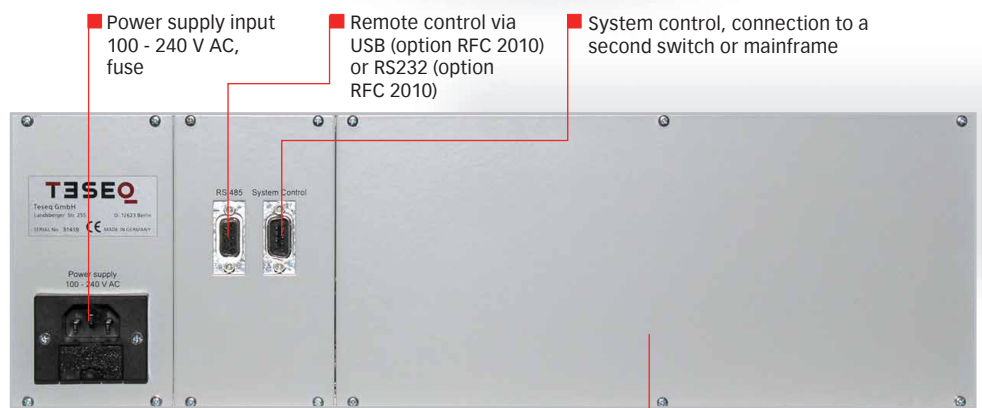
- Power supply input 100 - 240 V AC, fuse
- Remote control via USB (option RFC 2010) or RS232 (option RFC 2010)
- System control, connection to a second switch or mainframe

Switch type for the back panel	Connectors	Action		Max. possible switches of this type at back
NRS 1200-HP	N type	1 to 2		4

Note: The RF switches can only be mounted on the back panel.

**Technical specification**

Power supply:	100 - 240 V AC / 47 - 63 Hz
Remote control:	USB (option RFC 2010) or RS232 (option RFC 2010)
RF Impedance of the switches:	50 Ω
RF Isolation between the ports:	≥55 dB
Switch life time:	1M switch cycles (absence of RF power during switching required)
Operating temperature:	5 - 50°C
Humidity:	< 80% (not condensation)
Dimensions (W/H/D in mm):	483 x 150 x 423
Weight:	approx. 10 kg

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RFB 2000, RFC 2010 or 2020, NRS 1200-HP
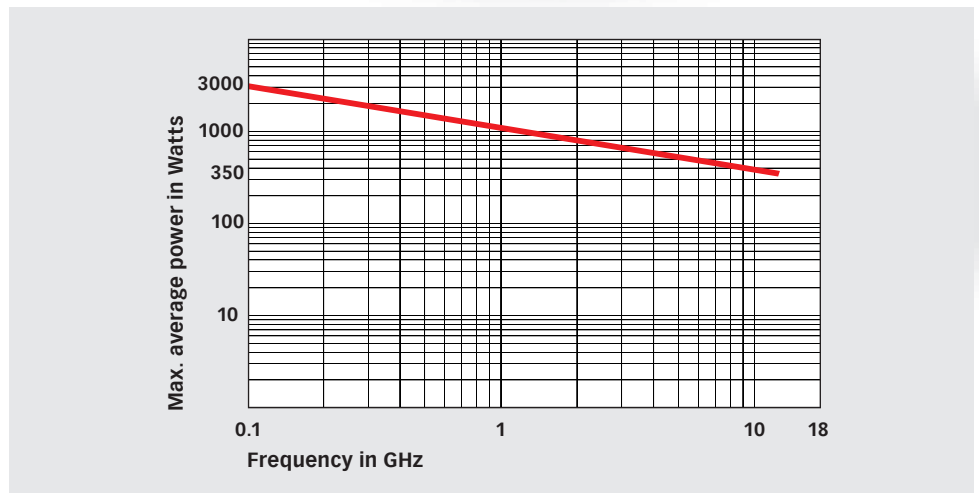# RF SWITCH NETWORK, HIGH POWER

Example of a setup with 3 power amplifier, 3 directional couplers, 5 power meter and 2 antennas
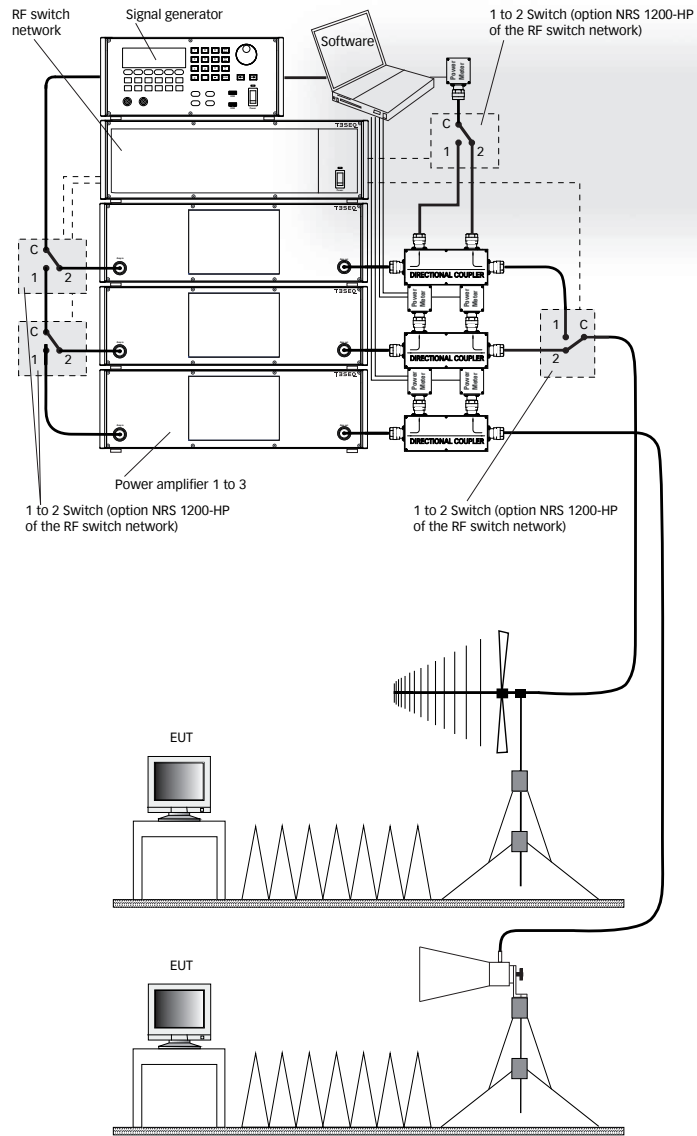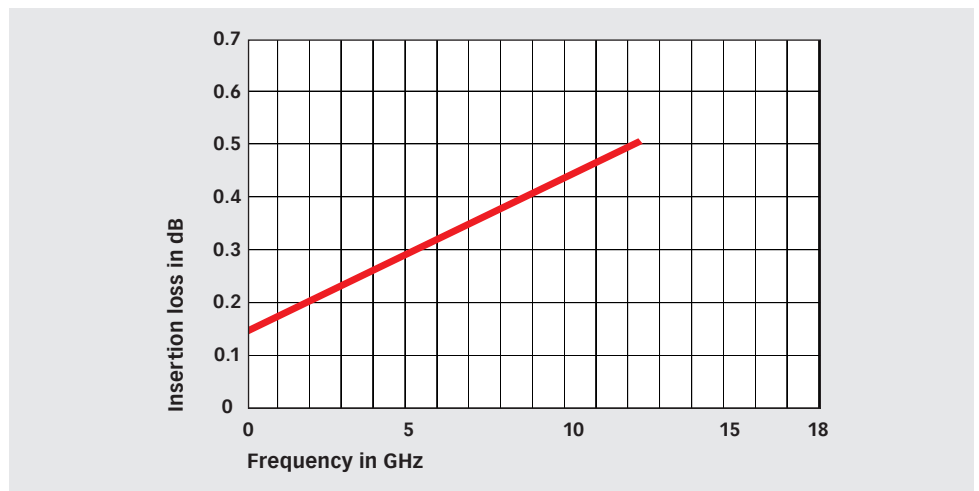

Teseq recommends a short distance between directional coupler and power meter for all applications above 1 GHz. The best solution is a direct mounted power meter on the directional coupler port.

RFB 2000, RFC 2010 or 2020, NRS 1200-HP
RF SWITCH NETWORK, HIGH POWER
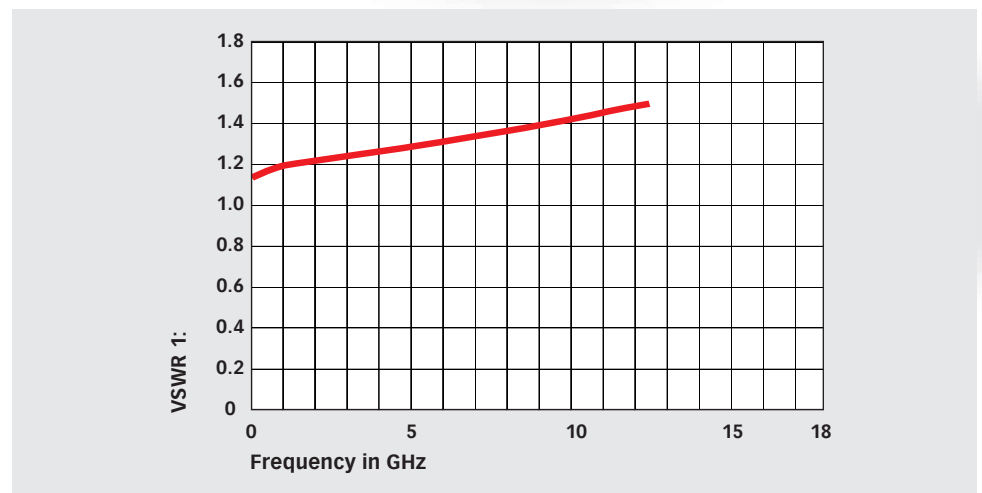
Max. average power, ambient temperature 40°C

Insertion loss

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RF SWITCH NETWORK, HIGH POWER

VSWR

Model range and options

Part number	Description
248020	RFB 2000 RF-Switch: Main unit for 19" rack without switches
248032	RFC 2010 RF-Switch: USB interface (requires RFB 2000)
248033	RFC 2020 RF-Switch: RS232 interface (requires RFB 2000)
248166	NRS 1200-HP Plug-in module for rear panel with switch 1 to 2, connector type N high power, max. 4 switches in RFB 2000 possible

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