

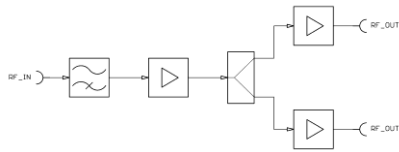
## 5 W Medium Output Power Multicoupler 20 ... 2800 MHz

### Features

- wideband
- compact 19", 6 U design
- cascadable

### Applications

- HTOL tests
- FM / DAB / GPS / SDARS / DVB-T  
ISM 433 / 868 / 2400 MHz  
GSM, UMTS, LTE
- multichannel transmitters
- quality assurance: RF power stress tests
- final testing
- research and development (R&D)



### At a Glance

WSDU-1X2PL complements the WSDU modules series by a compact multicoupler with up to 5 watts output power per channel. The module distributes an input signal to two output channels and is suitable for the frequency range 20 ... 2800 MHz.

### HTOL Tests

Power stress tests and HTOL tests require RF systems that offer high output power. Providing up to 5 W output power, WSDU-1X2PL is especially suited for these applications.

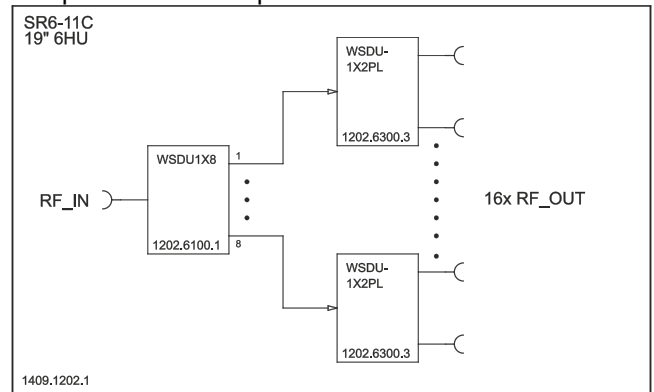
### Compact and Flexible

The system platform SR6-11C allows the integration of up to 11 modules in a compact 19", 6 U rack.

In combination with the wideband multicoupler WSDU1X8, multichannel sources with medium power capability can be realized in an easy and flexible way.

### Application Example

compact 16 channel power source



### Part List:

| Pcs | Product    | Description                          |
|-----|------------|--------------------------------------|
| 1   | WSDU1X8    | 1 to 8 Multicoupler                  |
| 1   | SR6-11C    | 19" 6 U System Platform              |
| 8   | WSDU-1X2PL | 5 W Medium Output Power Multicoupler |

## RF Specifications

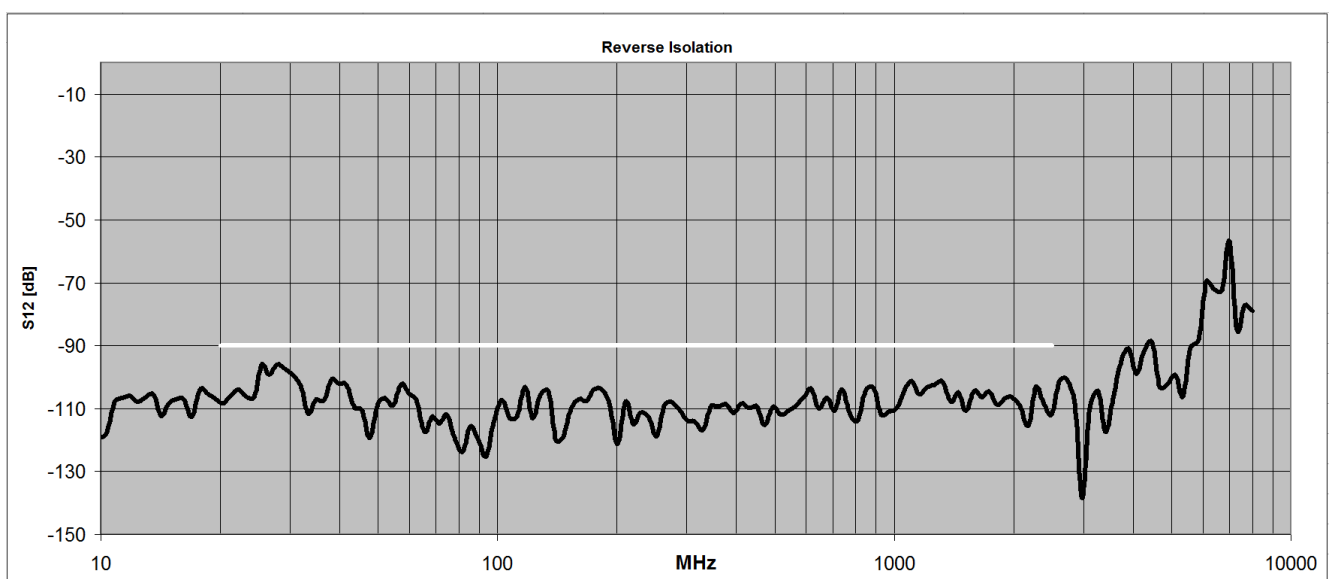
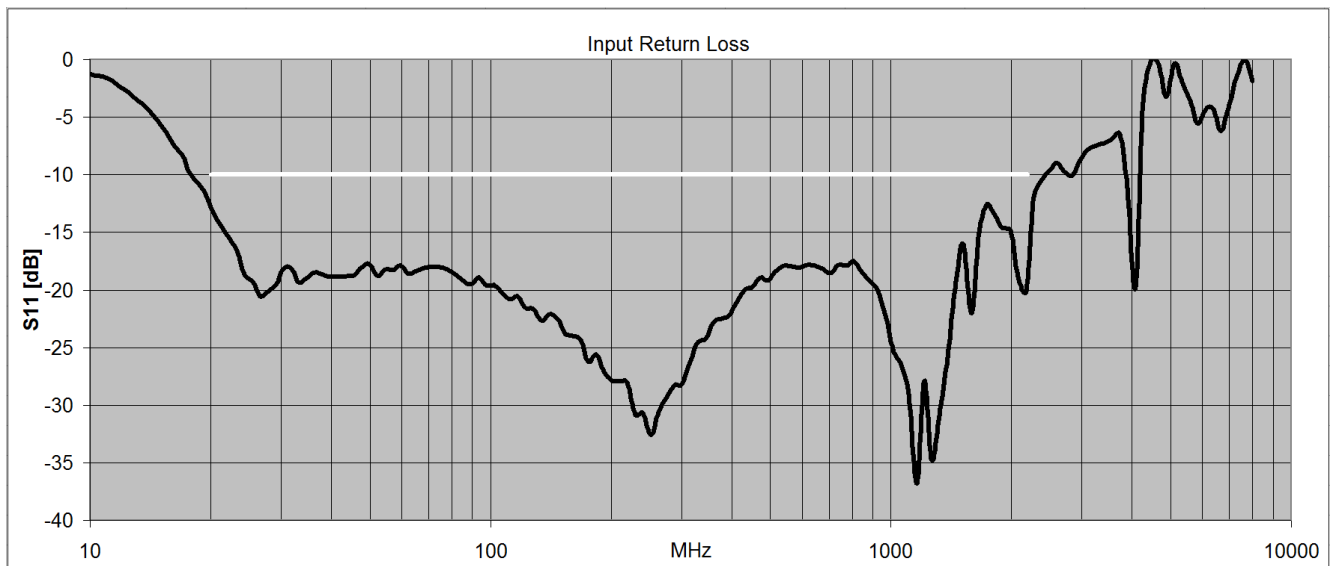
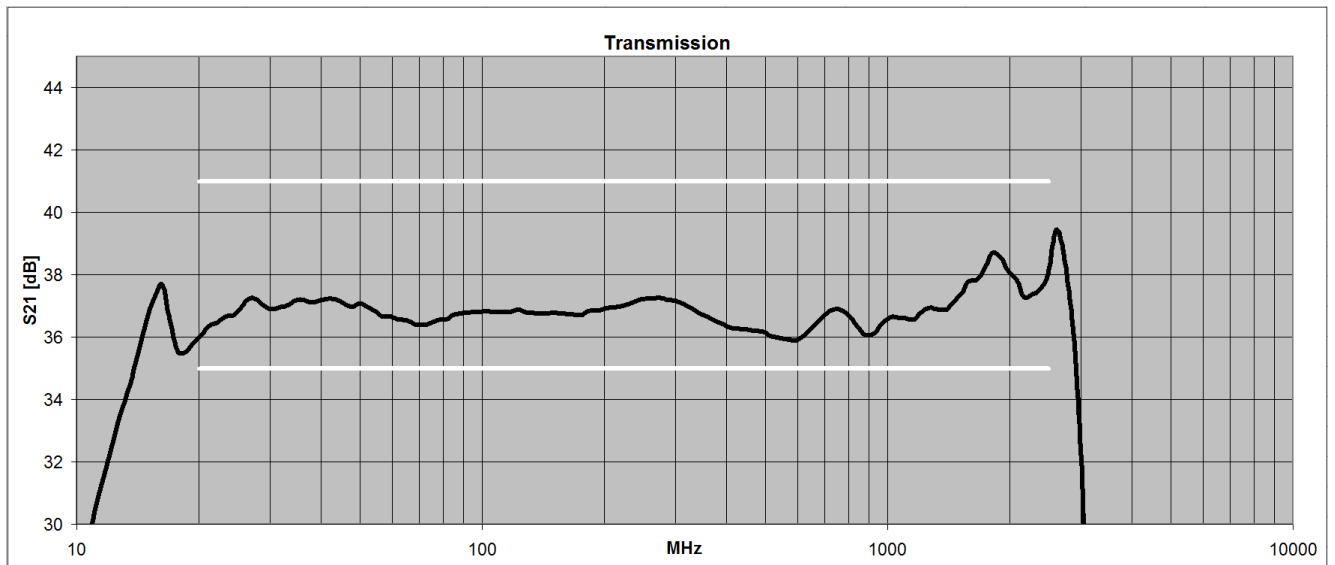
| Parameter           | Symbol             | Min. | Typ.      | Max.      | Unit | Condition         |
|---------------------|--------------------|------|-----------|-----------|------|-------------------|
| impedance           | $Z_{in} / Z_{out}$ |      | 50        |           | Ohm  |                   |
| low frequency       | $f_{min}$          |      |           | 20        | MHz  |                   |
| high frequency      | $f_{max}$          | 2500 | 2800      |           | MHz  |                   |
| gain                | $S_{21}$           | 35   | 38        | 41        | dB   | small signal      |
| amplitude balance   |                    |      | $\pm 0.2$ | $\pm 1.0$ | dB   |                   |
| input return loss   | $S_{11}$           |      | -20       | -12       | dB   | $f \leq 2200$ MHz |
| reverse isolation   | $S_{12}$           |      | -120      | -90       | dB   |                   |
| output isolation    | $S_{23}$           |      | -50       | -37       | dB   |                   |
| 1 dB compression    | $P_{1dB}$          | +32  | +35       |           | dBm  |                   |
| maximum input power | $P_{in\ max}$      |      |           | +5        | dBm  | CW, no damage     |
| RF connectors       |                    |      |           |           |      | SMA female        |

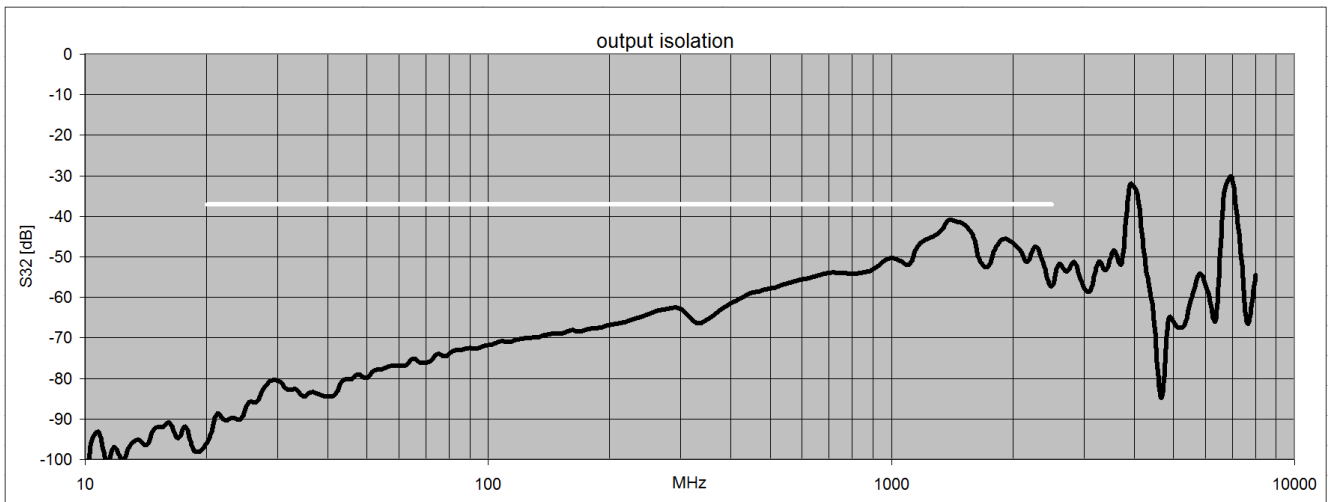
## Common Specifications

| Parameter             | Symbol    | Min.                   | Typ. | Max.        | Unit | Condition                 |
|-----------------------|-----------|------------------------|------|-------------|------|---------------------------|
| power supply          | U         | 23.5                   | 24.0 | 24.5        | V    |                           |
| power consumption     | P         |                        | 24   | 28          | W    |                           |
| dimensions            | L x W x H | approx. 197 x 30 x 262 |      |             | mm   | 6 U, 6 HP                 |
| weight                |           |                        | 1200 |             | G    |                           |
| operating temp. range | $T_o$     | +5                     |      | +60         | °C   |                           |
| storage temp. range   | $T_s$     | -40                    |      | +70         | °C   |                           |
| ordering information  |           | WSDU-1X2PL             |      | 1202.6300.3 |      |                           |
| system platform       |           | SR6-11C                |      | 1409.1202.1 |      | 6 U, 11 slots, 400 W max. |

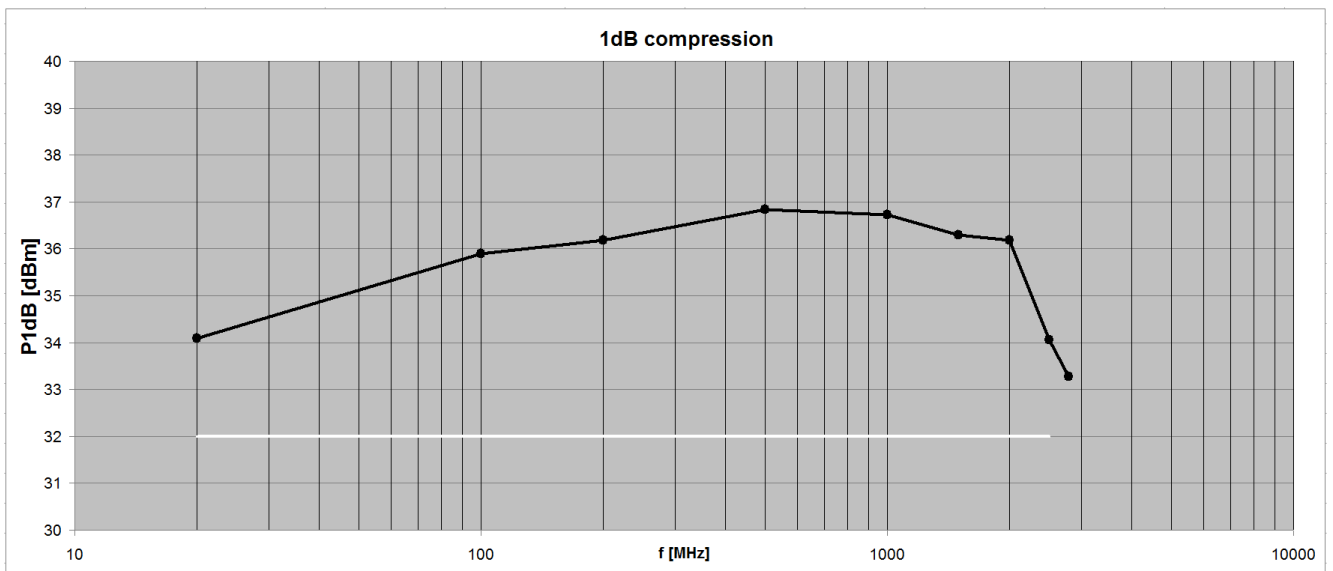


## S-Parameters (typical responses)





### Output Power



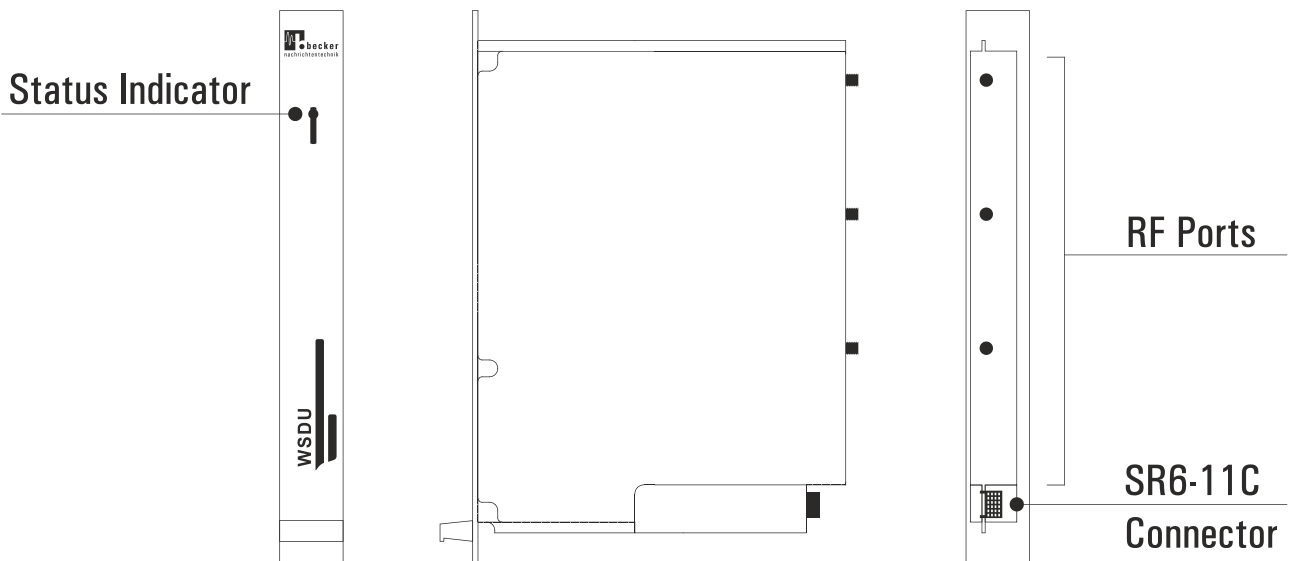
### Front View



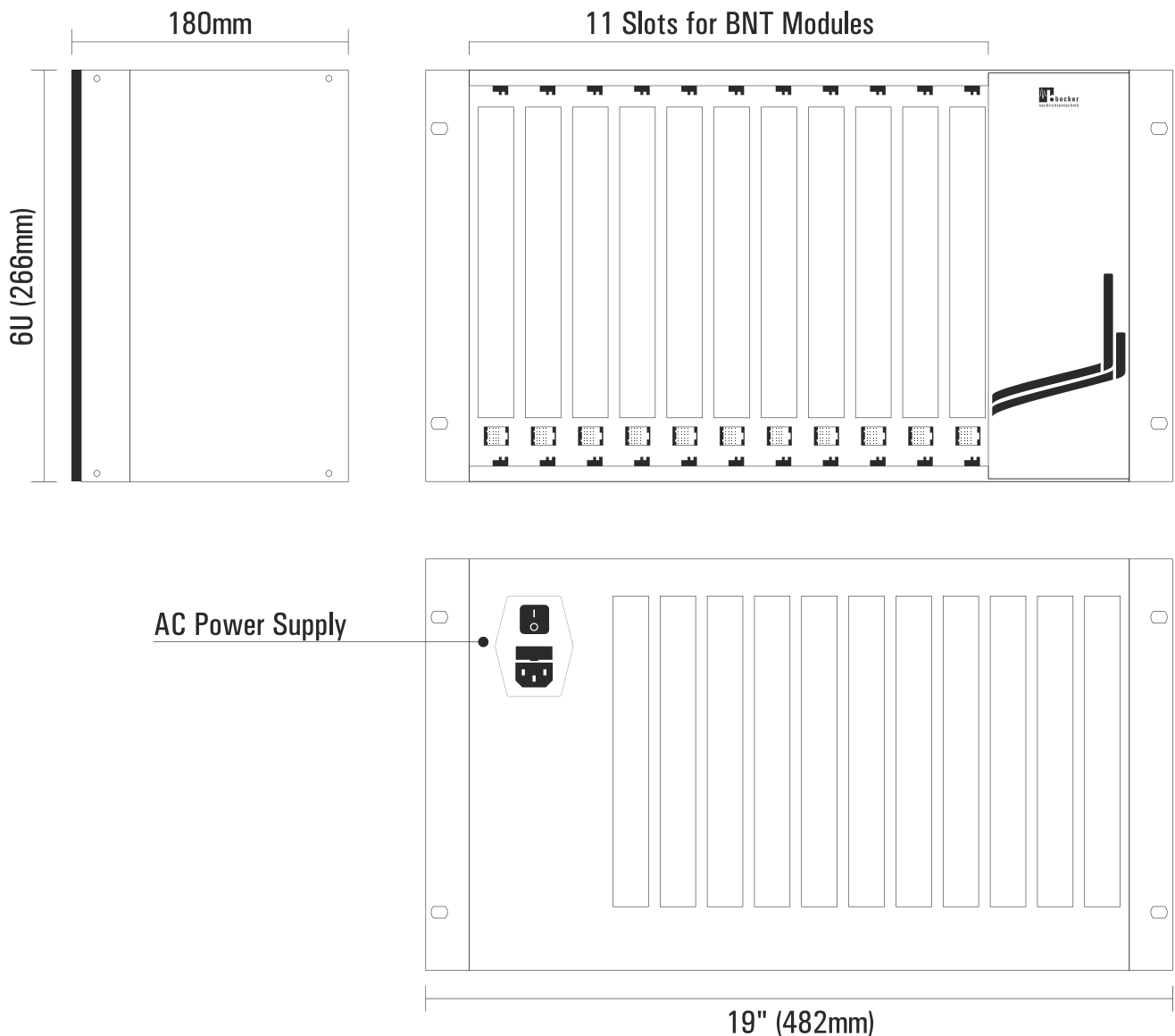
### Rear View



### Technical Drawing



## SR6-11C System Platform



### Related Products

| Product    | Description   | P/N         |
|------------|---|-------------|
| SR6-11C    | System Platform with 11 Slots   | 1409.1202.1 |
| SR6-CU     | Controller Unit with LAN and USB  | 1409.3000.1 |
| WSDU1X8    | High Dynamic 1X8 Multicoupler Module 100 kHz ... 4000 MHz               | 1202.6100.1 |
| WSDU-1X8P  | 8 x 400 mW 8 Way Multicoupler 20 ... 2700 MHz                           | 1202.6100.1 |
| WSDU-2X4E+ | Two Channel 1X4 plus One Channel 1X2 Multicoupler Module 20... 8000 MHz | 1502.6200.1 |
| WSDU-1X8S  | 8 Way Multicoupler for the Short Wave Range 1.7 ... 30 MHz              | 1502.6100.1 |