

3-dB Coupler with Cable Absorber 800 – 2200 MHz

The 3-dB Coupler with Cable Absorber is designed to combine two BTS (Base Transceiver Stations) onto one antenna in order to save feeder cable and antenna costs.

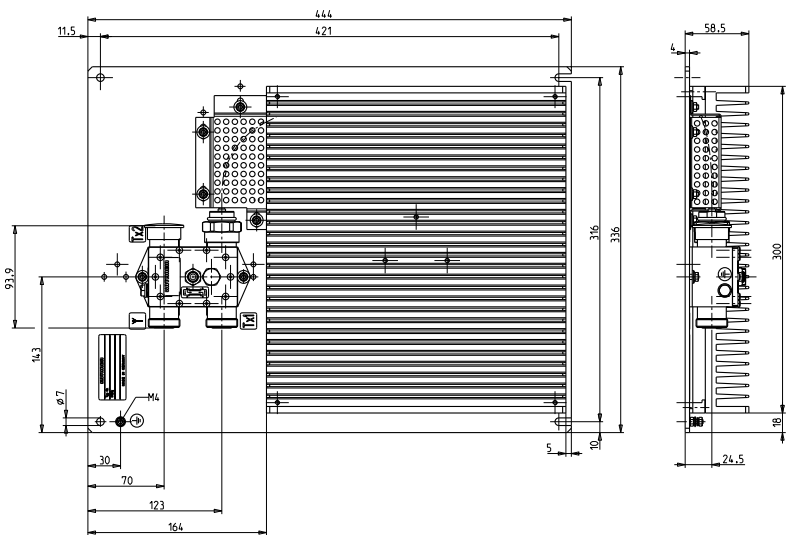
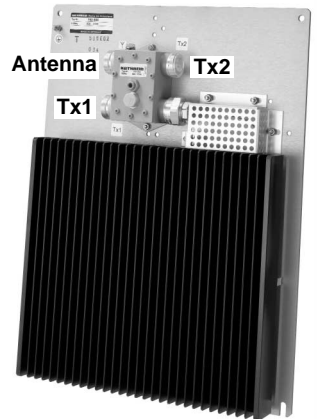
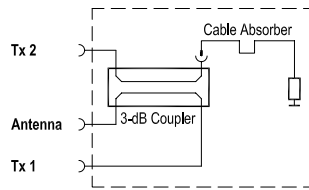
- Contrary to standard absorbers, the hereby implemented cable absorber provides excellent intermodulation performance
- The frequency spacing between transmitter signals can be as small as required
- DC signals at Tx1 port are passed to antenna port
- DC signals at Tx2 port are short-circuited
- Suitable for indoor applications

Note:

The 3-dB Coupler with Cable Absorber is designed for a max. input power of 150 W per input (in total 300 W). Wall-mounting of the device is recommended with the cooling ribs running in a vertical direction (see photo) in order to dissipate the max. heat power of 150 W and not to over-heat the unit.

When installed in a 19" rack, it must be ensured that the max. heat power of 150 W is sufficiently dissipated, so that the ambient temperature does not rise above +50 °C. This can be achieved for example by the additional installation of a correspondingly dimensioned ventilator in the 19" rack or by reducing the maximum input power.

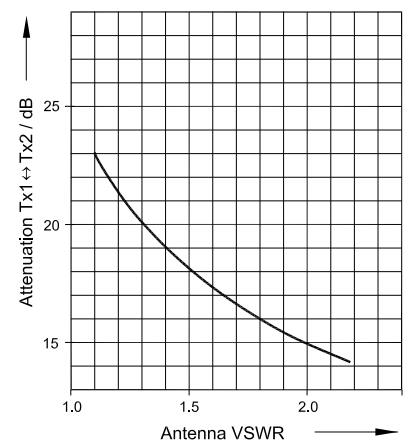
The max. connector coupling torque of 25 Nm is not to be exceeded.



Technical Data

Type No.	793 555
Frequency range	800 – 2200 MHz
Attenuation Tx1 → Antenna Tx2 → Antenna Tx1 ↔ Tx2	3 ±1.2 dB 3 ±1.2 dB See diagram
VSWR	< 1.2
Impedance	50 Ω
Input power	< 150 W per Tx port with max. 16 signals at each port
Intermodulation products	< -160 dBc (3rd order; with 2 x 20 W)
Temperature range	-20 ... +50 °C
Connectors	7-16 female
Application	Indoor
Special features	DC signals at Tx1 port are passed to Antenna port DC signals at Tx2 port are short-circuited
Mounting	Wall mounting: With 4 screws (max. 7 mm diameter) 19" rack mounting: To be inserted on pre-installed 19" sliding bars (2 height units required)
Weight	9.8 kg
Packing size	510 mm x 410 mm x 100 mm
Dimensions (w x h x d)	336 mm x 444 mm x 64 mm

Typical attenuation Tx1 ↔ Tx2 vs. Antenna VSWR



936.2425/d Subject to alteration.

Note: VSWR and attenuation values are measured when the remaining ports are terminated with 50-Ω loads.