

# Hybrid Combiner 2:1

## 1700 – 2200 MHz

### 2 x 150 W

- Designed for the decoupled combining of 2 transmitter or receiver signals onto one common antenna
- The frequency spacing between transmitter signals can be as small as required
- **Excellent intermodulation performance**
- Suitable for indoor applications
- Wall or 19" rack mounting
- DC by-pass between port 1 and port 3
- External DC stop available as an accessory



#### Technical Data

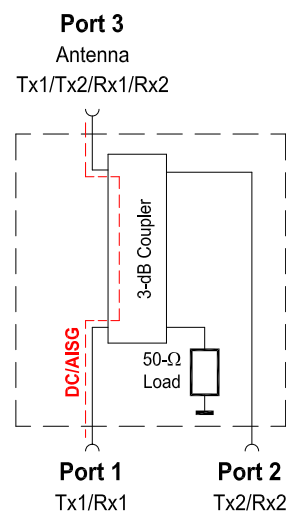
Type No.	792 702
Frequency range	1700 – 2200 MHz
Attenuation	
Port 1 ↔ Port 3	3.1 ±0.4 dB
Port 2 ↔ Port 3	3.1 ±0.4 dB
Port 1 ↔ Port 2	> 24 dB*
VSWR (all ports)	< 1.15
Impedance	50 Ω
Input power	
Port 1	< 150 W (with max. 16 signals)
Port 2	< 150 W (with max. 16 signals)
Intermodulation products	< -160 dBc (3 <sup>rd</sup> order; with 2 x 20 W)
Temperature range	-20 ... +50 °C
Connectors	7-16 female
Application	Indoor
DC/AISG transparency	
Port 1 ↔ Port 3	By-pass (max. 2500 mA)
Port 2	Short circuit (External DC stop available as an accessory)
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 x 410 x 100 mm
Dimensions (w x h x d)	336 x 444 x 64 mm

\* Valid if all ports are terminated with 50-Ω loads (see diagram).

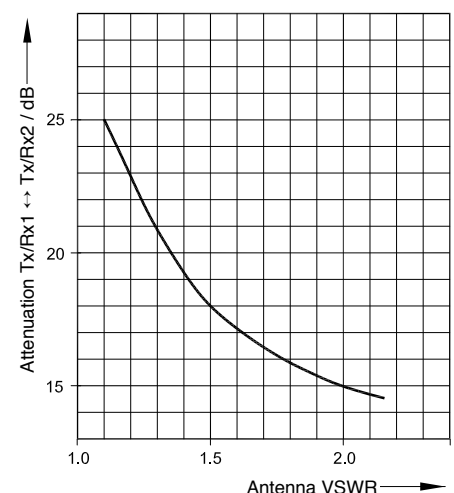
#### Note:

The input power rating of 150 W per port is specified at an ambient temperature of +55 °C with the combiner mounted vertically (see photo), without additional cooling, and while respecting the safety standard EN IEC 60950 (max. surface temperature +90 °C).

When installed in a 19" rack, it must be ensured that the max. 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.



Typical attenuation Tx/Rx1 ↔ Tx/Rx2 vs. Antenna VSWR



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**Accessories (order separately)**

Type No.	Description
793 301	DC stop

