

Receiver Multicoupler 380 – 470 MHz

This receiver multicoupler makes it possible to operate up to 8 receivers simultaneously on one common antenna. It is especially suitable for use at base stations where there is only limited mast space for the receiving antennas. The low noise level and the excellent intermodulation characteristics of the receiver multicoupler ensure a high dynamic range.

The receiver multicoupler consists of:

- a low-noise amplifier,
- a power splitter,
- a voltage supply.

The HF signals are amplified at the input of the receiver multicoupler by an actively redundant low-noise amplifier. This means that the receiver multicoupler will still remain operational even if one of the parallel connected amplifier modules fails. In this case, however, the amplification will decrease by about 6 dB.

Each amplifier module has its own voltage supply which is so designed that the modules can be operated simultaneously with both alternating current (230 V) and direct current (+11 ... +48 DC).



Front side



Rear side

Technical Data

Type No.	727 621
Number of inputs	1
Number of outputs	8
Frequency range	380 – 470 MHz Special tuning is possible in the range of 350 to 550 MHz
Gain	3 dB +1.5 / –1.5 dB
Noise figure	< 3.5 dB +0.5 / –1 dB
3rd order intercept point	> 16 dBm (typ. 19 dBm)
Isolation	> 25 dB (typ. 30 dB) between any two outputs
VSWR	
Input	< 1.4
Output	< 1.4
Impedance	50 Ω
Power Supply	230 V +10 / –15 %, 50 ... 60 Hz and/or +11 ... +48 V DC, minus grounded
Power Consumption	< 9 W (230 V, 50 Hz) < 20 W (+11 ... +48 V DC)
Temperature range	–20 ... +50 °C
Connectors	N female
Colour	Front panel: Grey (RAL 7032)
Attached hardware	Power cable and 4 pin DC connector
Weight	4.0 kg
Packing size	560 mm x 105 mm x 385 mm
Dimensions (w x h x d)	483 mm x 44 mm x 280 mm, 19" drawer

Note: Not used outputs have to be terminated using a 50-Ω load in order to comply with the specifications.