

## UHF 4 Way Power Combiner and directional coupler

The combiner is developed in Wilkinson structure, and uses Microstrip lines and transformer.

It is composed of four “quarter wave steps” in order to work on all UHF range.

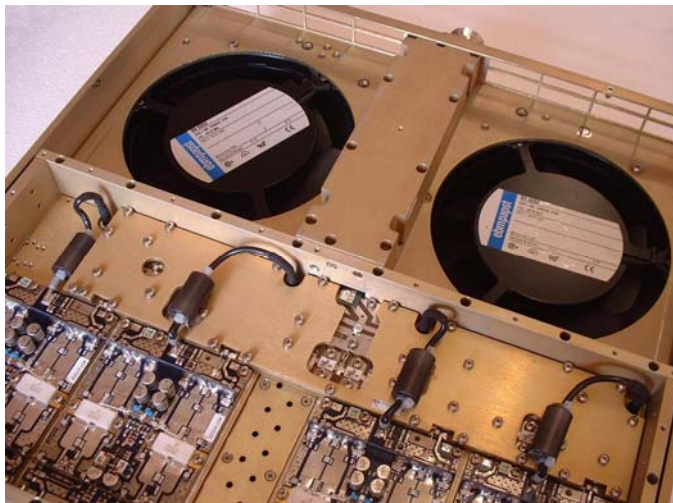
More over in this group is integrated a UHF directional coupler, that provide three DC voltage:

- 1- Forward power : 0-5V
- 2- Reflected power 1: 0-5V
- 3- Reflected power 2: 0-5V

### IMPORTANT

The coupler works only in conjunction of his own Directional coupler

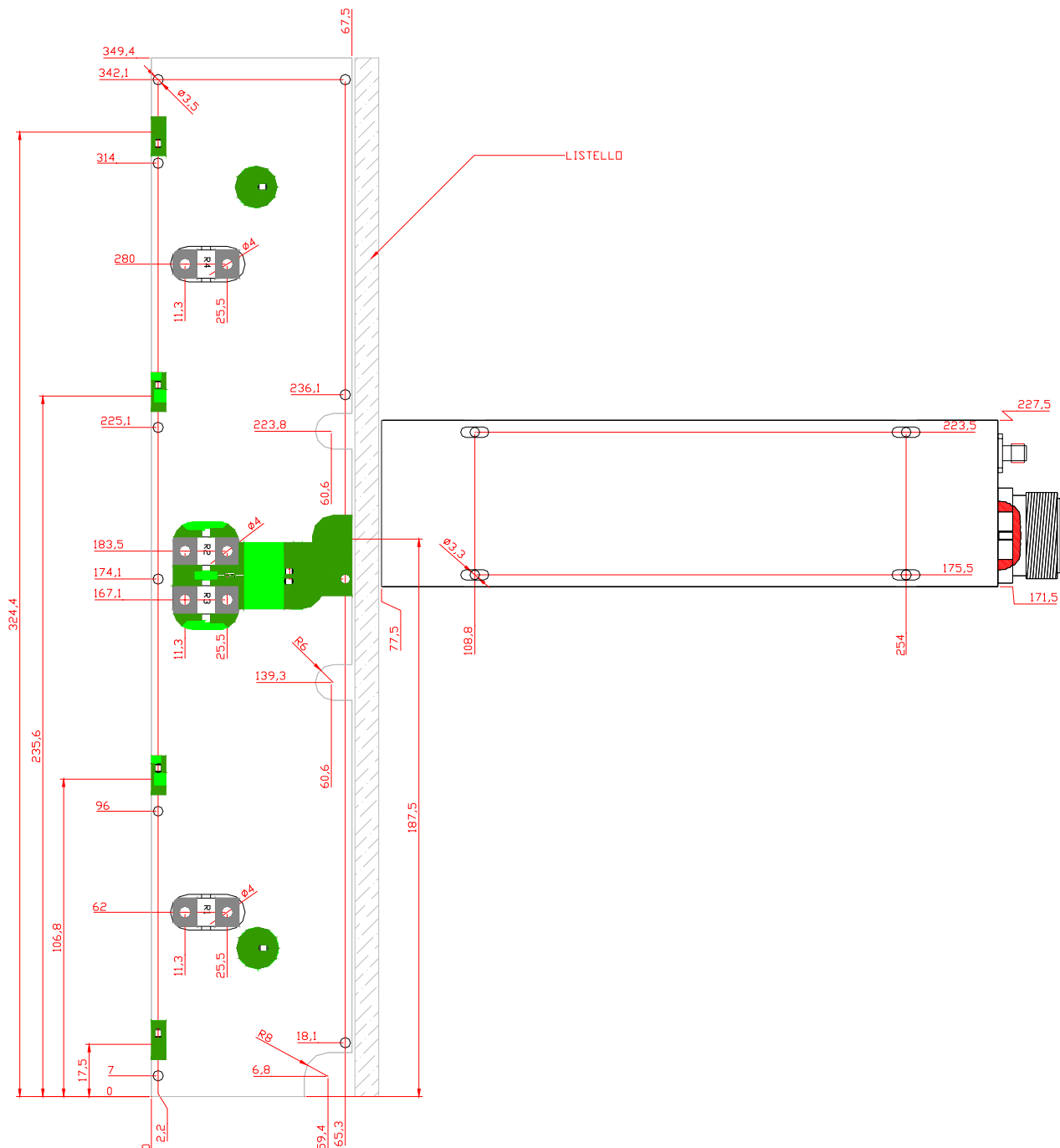
- **Frequency Range:** 470 – 862 MHz
- **Structure:** 4way Wilkinson Combiner
- **Input/Output impedances** 50Ω
- **Isolated Input Ports**
- **Material:** microwave substrate on aluminum baseplate



### CHARACTERISTICS

<b>Output Power</b>	1500 W p- Synk or 1000 CW
<b>Return Loss @ input ports</b>	-16 dB Min, -18dB typ.
<b>Return Loss @ common port</b>	-18 dB Min, -22dB typ.
<b>Insert. Loss @ 860 MHz</b>	-0.9 dB Max, 0.7 dB Typ
<b>Isolation (between input ports)</b>	-16 dB Min, -18 dB Typ
<b>Amplitude Unbalance</b>	± 0.3 dB Max
<b>Phase Unbalance</b>	± 5° Max

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Dimensions: mm

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