

High-Power Combiner in WR284



Input Power 15 kW Peak at each Port

2 Frequency Ranges: 2.7÷2.9 GHz & 2.9÷3.3 GHz

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Microwavefilters&TVC has designed and developed a WR284 waveguide power combiner for high-power applications. Input Power at each port is up to 15 kW (peak). Two frequency ranges are available: 2.7÷2.9 GHz and 2.9÷3.3 GHz. The combiner is characterized by its wide and flat frequency response, good VSWR, isolation and low loss.

Main Electrical & Mechanical Characteristics

Frequency Range: 2.7 ÷ 2.9 GHz (code UN-PC02800-2FF)

2.9 ÷ 3.3 GHz (code UN-PC03100-2FF)

Input Ports: 2 x CPR284F Flanges

Output Port: CPR284F Flange

Return Loss on all Ports: ≥ 23 dB

Input Power at each Port: ≤ 15 kW peak, 200 μs pulse width max. & 20% duty cycle)

Output Power: ≤ 25 kW peak (20% duty cycle, for incident powers of equal amplitudes and phase difference of 90°)

Coupling Factor: 3 dB ± 0.5 dB over Frequency Range

Amplitude Balance: ± 0.25 dB max.

Insertion Loss: ≤ 0.3 dB

Temperature Range: -30 °C ÷ +55 °C

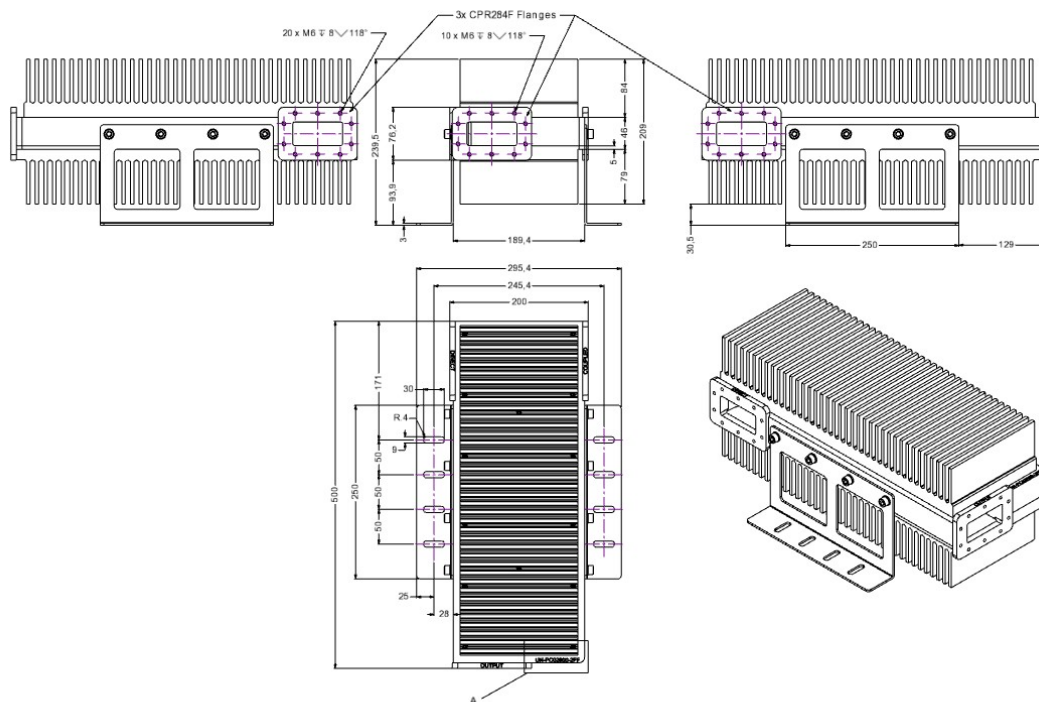
Material: Aluminum EN AW 6061 Anticorodal 3.3211

Internal Finishing: Chemical Conventional Coating SURTEC 650

External Finish: Painting Black MIL RAL 9005

Environmental Conditions: INDOOR USE IP60

Weight: around 21 Kgs



Typical Frequency Responses

