

**Good Isolation & VSWR**  
**Wide Band (7.1 ÷ 8.5 GHz)**  
**Flat Response & Low Loss**



## 6-dB Waveguide Coupler

## In R84 (WR112)

**Microwavefilters & TVC srl**

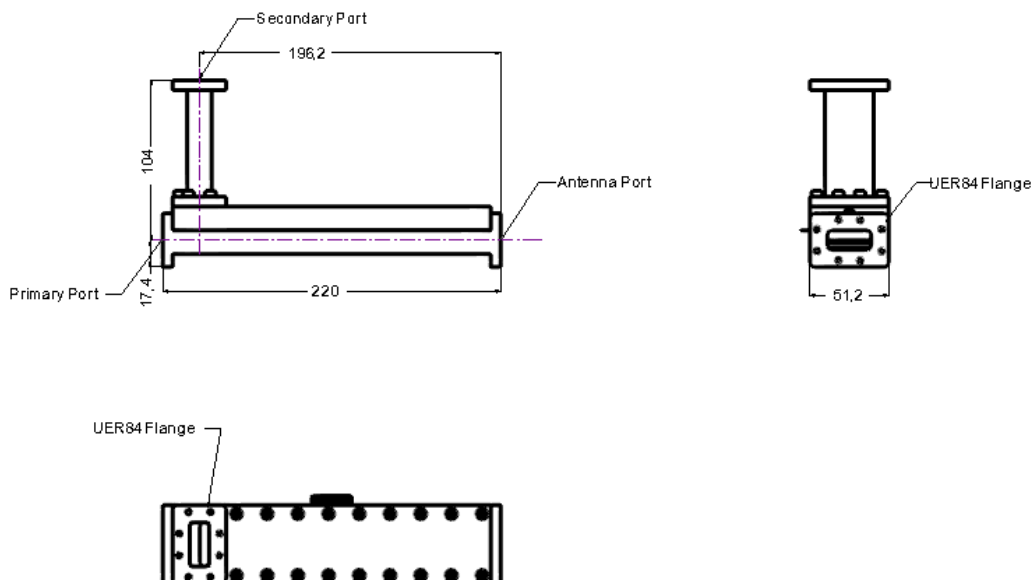
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**Microwavefilters &TVC** has developed a new family of waveguide directional couplers, with 3 dB and 6 dB couplings, which can be used as dividers for indoor branching systems, among other things. This family is characterized by its wide and flat frequency response, good VSWR, isolation and low loss.

## Main Electrical & Mechanical Characteristics

Part Number	<b>MW-C07800-FFFT</b>
Coupling factor	<b>6 dB (<math>\pm 0.7</math> dB)</b>
Primary line loss	<b><math>\leq 1.6</math> dB</b>
Frequency range	<b>7.1 <math>\div</math> 8.5 GHz</b>
VSWR (Return Loss)	<b>1.12:1 max. (<math>\geq 25.0</math> dB)</b>
Isolation	<b><math>\geq 30</math> dB</b>
Intermodulation	<b><math>\leq 148</math> dBc, 2 input tones of 36 dBm</b>
Waveguide	<b>WR112 (R84)</b>
Input / Output Ports	<b>UER84 on all 3 Ports with M4 threaded holes</b>
Operating Temperature Range	<b>-40 <math>\div</math> +70 °C</b>
Dimensions	<b>220 x 121.4 x 51.2 mm</b>



## Typical Frequency Responses

