



DC – 110 GHz · POWER AMPLIFIERS · LNA · WAVEGUIDE AMPLIFIERS · ISOLATORS

Wenteq Microwave manufactures RF and microwave power amplifiers plus passive components to 46 GHz. bq-microwave is the authorised European distributor.



## Product Portfolio

<p><b>LNA Amplifiers</b> TO 46.5 GHz Low-noise amplifiers for receiver front-ends.</p>	<p><b>Power Amplifiers</b> TO 46.5 GHz High-power stages for transmit chains across multiple bands.</p>	<p><b>Waveguide Amplifiers</b> TO 46.5 GHz Millimetre-wave solutions integrated directly into waveguide.</p>
<p><b>Isolators</b> TO 40 GHz Coaxial, dual junction, drop-in and waveguide variants.</p>	<p><b>Circulators</b> TO 40 GHz Coaxial, dual junction, drop-in and waveguide formats.</p>	<p><b>High Power Attenuators</b> TO 18 GHz Fixed and variable attenuation for high-power paths.</p>
<p><b>High Power Terminations</b> TO 18 GHz Broadband loads capable of handling significant RF energy.</p>	<p><b>Cable Assemblies</b> TO 40 GHz Precision test cables and interconnects with low insertion loss.</p>	<p><b>Waveguide Components</b> TO 110 GHz Passive waveguide sections, transitions and adaptors.</p>

## Strengths at a glance

<p><b>Amplifier Focus</b> Dedicated LNA and power-amplifier portfolios, refined over two decades of RF design experience.</p>	<p><b>LNA + PA Under One Roof</b> Both low-noise and high-power stages from a single source — ideal for integrated transceiver chains.</p>	<p><b>DC to 46.5 GHz</b> Broad spectral coverage from HF through Ka-band, with special variants reaching Q- and V-band.</p>
<p><b>Waveguide Expertise</b> Specialises in direct waveguide-integrated amplifiers for mmWave applications, avoiding adapter losses.</p>	<p><b>High Gain</b> Cascade designs delivering over 40 dB gain, with low noise figures and stable output power.</p>	<p><b>Custom Engineering</b> Tailored modules to meet specific gain, noise, linearity and form-factor requirements.</p>

## Industries & Use Cases

### Receiver Systems

Front-end LNAs for sensitive SATCOM, radio astronomy and measurement receivers.

### SATCOM

Ground-station power stages and block up-converters, plus down-converter LNAs in X-, Ku- and Ka-band.

### Radar Systems

High-power transmit amplifiers and low-noise receiver stages for military and civil radar platforms.

### 5G / 6G Testing

mmWave amplifiers for FR2 test rigs, beamforming validation and antenna characterisation to 46.5 GHz.

### Research

Signal conditioning in scientific measurement chains at universities and research institutes worldwide.

### Defence

Ruggedised modules for military communications, reconnaissance and electronic-warfare systems.



### Available through bq-microwave

bq-microwave is the authorized European distributor for Wenteq. Fast procurement, short lead times and personal technical consultation.

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