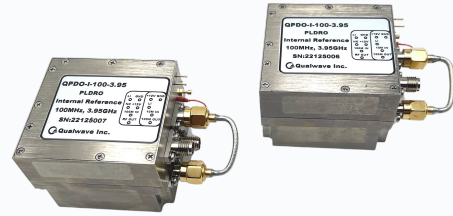




DC – 325 GHz · MICROWAVE & MMWAVE · HIGH-POWER UP TO 15 KW · COAX & WAVEGUIDE

Qualwave Inc. develops and manufactures microwave and millimetre-wave products from DC to 325 GHz. Active and passive components — waveguides, switches, filters, amplifiers and high-power terminations. bq-microwave is authorised distributor for Europe.



## Product Portfolio

<p><b>Adapters</b> UP TO 110 GHz</p> <p>Coaxial adapters in all connector combinations.</p>	<p><b>Amplifiers</b> UP TO 110 GHz</p> <p>LNA, PA, PA systems and waveguide amplifiers.</p>	<p><b>Attenuators</b> UP TO 67 GHz</p> <p>Fixed and variable attenuators.</p>	<p><b>Cable Assemblies</b> UP TO 110 GHz</p> <p>High-quality cable assemblies to 110 GHz.</p>
<p><b>Circulators</b> UP TO 40 GHz</p> <p>Coaxial, drop-in, surface mount and custom.</p>	<p><b>Connectors</b> UP TO 67 GHz</p> <p>End-launch and panel-mount connectors.</p>	<p><b>Couplers</b> UP TO 67 GHz</p> <p>Single, dual and hybrid couplers.</p>	<p><b>DC-Blocks</b> UP TO 67 GHz</p> <p>Inner and outer connector DC-blocks.</p>
<p><b>Detectors</b> UP TO 75 GHz</p> <p>Coaxial and waveguide detectors.</p>	<p><b>Filters</b> UP TO 170 GHz</p> <p>Bandpass, lowpass, highpass, band reject and waveguide filters.</p>	<p><b>Isolators</b> UP TO 40 GHz</p> <p>Coaxial, drop-in, surface mount and custom.</p>	<p><b>Phase Lock Oscillators</b> UP TO 40 GHz</p> <p>PLO signal sources for stable reference frequencies.</p>
<p><b>Phase Shifters</b> UP TO 40 GHz</p> <p>Analogue and digital phase shifters.</p>	<p><b>Power Dividers</b> UP TO 67 GHz</p> <p>2-way and 4-way power dividers.</p>	<p><b>Switches</b> UP TO 40 GHz</p> <p>Coaxial SPDT and SP4T switches.</p>	<p><b>Waveguide Components</b> UP TO 325 GHz</p> <p>Bends, twists, dividers, loads, amplifiers and further waveguide components.</p>

## Strengths at a glance

<p><b>DC – 325 GHz Range</b></p> <p>One of the broadest portfolios in the Chinese market — from coaxial components to waveguide assemblies up to 325 GHz, high-power terminations and switches to 110 GHz.</p>	<p><b>High Power Specialist</b></p> <p>Waveguide terminations with up to 15 kW average power handling — specialist for transmitters, radar and SATCOM ground stations.</p>	<p><b>ISO 9001:2015 Certified</b></p> <p>Quality management to international standard — proven designs with high reproducibility and delivery reliability.</p>
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**In-House Test Capability to 67 GHz**

Vector network analyser, signal sources, spectrum analysers and high/low-temperature test systems in own production and test environment.

**Custom Designs**

Tailored waveguide components, waveguide transitions and filters to customer specification — rapid iteration from design to production.

**Active + Passive Components**

Switches, bends, transitions, straight sections, filters, terminations, couplers, adapters, flexible waveguides — complete waveguide portfolio from one source.

**Industries & Use Cases**

**SATCOM Ground Stations**

Waveguide components for X-, Ku-, Ka- and Q-band ground stations — switches for antenna routing and high-power terminations.

**Radar Systems**

Fixed and mobile radar platforms, weather radar, defence radar — waveguide filters, couplers and assemblies to 110 GHz.

**mmWave Research**

Universities and research institutions — waveguides to 220 GHz for sub-terahertz applications, antenna measurement and spectroscopy.

**Test & Measurement**

High-precision waveguide components for test setups, calibration stations and ATE systems to 110 GHz.

**Transmitter Installations**

High power terminations to 15 kW for high-power transmitters, antenna matching and redundant backup systems.

**Defence & Aerospace**

Robust waveguide components for airborne platforms, military communications and reconnaissance systems.



**Available through bq-microwave**

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

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