



DC - 1700 GHz · COAX & WAVEGUIDE · SATCOM  
 · DEFENSE · 5G / 6G · CUSTOM DESIGNS

Shanghai AT Microwave Limited is a leading manufacturer of RF, microwave and millimetre-wave modules with over 20 years of experience. The portfolio covers coaxial and waveguide components from DC to 1700 GHz. bq-microwave is the authorised European distributor.



## Product Portfolio

### LNA & Power Amplifiers

COAX TO 110 GHz · WAVEGUIDE TO 450 GHz / WR-2.2

Low-noise amplifiers and power amplifiers — coaxial up to 110 GHz and waveguide up to 450 GHz.

### Frequency Multipliers

COAX TO 110 GHz · WAVEGUIDE TO 400 GHz / WR-2.8

Active and passive multipliers for all bands — Q/U/V/E/W/F/H/Y-band waveguide.

### Mixers & IQ Mixers

COAX TO 67 GHz · WAVEGUIDE TO 325 GHz / WR-3

Standard balanced mixers, IQ mixers and subharmonic mixers for defence and test equipment.

### Switches

COAX TO 70 GHz · WAVEGUIDE TO 260 GHz / WR-4

Coaxial switches SPDT/SP4T with SMA and 2.92 mm as well as waveguide switches up to WR-4.

### Filters

COAX TO 67 GHz · WAVEGUIDE TO 330 GHz / WR-3

Bandpass, lowpass, highpass and duplexers — coaxial up to 67 GHz and waveguide up to 330 GHz.

### Attenuators

COAX TO 110 GHz · WAVEGUIDE TO 500 GHz / WR-2.2

Fixed and variable coaxial attenuators as well as waveguide attenuators (fixed, variable).

### Couplers & Power Dividers

COAX TO 67 GHz · WAVEGUIDE TO 500 GHz / WR-2.2

2- and 4-way coaxial power dividers as well as single- and dual-directional couplers.

### Oscillators

COAX TO 44 GHz · WAVEGUIDE TO 350 GHz / WR-2.8

PLO signal sources with low phase noise as well as VCOs for coaxial and waveguide.

### Tx/Rx, Up/Down & Extenders

WAVEGUIDE TO 500 GHz / WR-2.2

Complete Tx, Rx and transceiver modules up to WR-2.2, up/down converters and frequency extenders.

### Faraday Isolators

WAVEGUIDE TO 260 GHz / WR-4

Compact Faraday isolators Q/U/V/E/W/F/D/G/H-band — from 33 to 260 GHz.

### Phase Shifters

COAX TO 46 GHz

Analogue and digital phase shifters for beamforming and antenna testing.

### Coaxial Adapters

COAX TO 110 GHz

Precision in-series and between-series adapters in all connector combinations.

### Waveguide-to-Coax Adapters

WAVEGUIDE TO 170 GHz / WR-6

End-launch and right-angle waveguide-to-coax adapters including high-power and double-ridge.

### DC Blocks

COAX TO 110 GHz

Inner and outer conductor DC blocks up to 110 GHz.

### Bias Tees

COAX TO 110 GHz

Broadband bias tees DC to 110 GHz.

### Detectors

COAX TO 67 GHz · WAVEGUIDE TO 325 GHz / WR-3

Coaxial, waveguide and video detectors for test equipment and receiver characterisation.

### Waveguide Cables

WAVEGUIDE TO 170 GHz / WR-6

Flexible and semi-rigid waveguide cables as well as coaxial semi-rigid and flexible cable assemblies.

### Terminations & Limiters

COAX TO 67 GHz · WAVEGUIDE TO 500 GHz / WR-2.2

Coaxial and waveguide terminations as well as coaxial limiters.

### Equalizers & Frequency Dividers

EQUALIZER TO 70 GHz · FREQUENCY DIVIDER TO 60 GHz

Coaxial equalizers and frequency dividers for measurement and communication systems.

### Straight & Bends

WAVEGUIDE TO 1700 GHz / WR-0.65

Straight waveguide sections, E- and H-plane bends, twists and taper transitions up to WR-0.65.

**Horn Antennas**

WAVEGUIDE TO 1100 GHz / WR-1.0  
Standard-gain, high-gain, wide-band and sectoral horn antennas for antenna characterisation.

**Orthomode Transducer**

WR-15 TO WR-4 (50 - 260 GHz)  
OMTs for dual polarization in V/W/D/G/H-band.

**Test Equipment**

WAVEGUIDE TO 500 GHz / WR-2.2  
VNA extenders, spectrum-analyzer extenders, signal-generator extenders and up/down converters.

**Strengths at a glance**

**DC – 1700 GHz**

One of the broadest portfolios worldwide — coaxial modules to 110 GHz, waveguide components to 1700 GHz including sub-terahertz range.

**Over 20 Years of Experience**

Established in Shanghai with experienced engineering team and proven track record in multi-million-dollar projects.

**29 Product Categories**

From LNA, PA and multipliers via mixers and filters to complete TxRx modules and test equipment — all from one source.

**Custom Designs**

Tailored solutions to customer requirements — rapid iteration from concept to volume delivery.

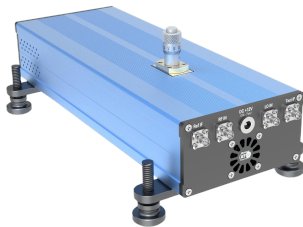
**Competitive Pricing**

High-quality components at attractive prices — ideal for R&D budgets and volume projects.

**Complete TxRx Modules**

Transmitter, receiver and transceiver modules as complete systems for rapid integration into your applications.

**Spotlight: Frequency Extenders & Test Modules**



**Complete Test-Equipment Portfolio up to 500 GHz**

VNA frequency extenders, spectrum-analyzer extenders, signal-generator extenders as well as up- and down-converters. All modules compatible with Keysight, Rohde & Schwarz and Anritsu mainframes — up to WR-2.2 (500 GHz).

**Industries & Use Cases**

**SATCOM**

Ground stations, mobile terminals and satellite-based communications in X-, Ku-, Ka- and Q/V-Band.

**Defence & Radar**

Radar front-ends, EW systems and military communications with stringent frequency coverage and reliability requirements.

**5G / 6G Research**

mmWave components for FR2 and 6G bands beyond 100 GHz — beamforming, testing and antenna measurements.

**THz & Sub-mmWave**

Waveguide LNAs, PAs and multipliers to 1700 GHz for spectroscopy, astronomy and high-frequency research.

**Automotive Radar**

Components for 77/79 GHz automotive radar and long-range sensing.

**Test & Measurement**

Test equipment and measurement modules for lab setups and ATE systems to sub-THz.



### Available through bq-microwave

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

Contact: +49 (0) 151 25290128 · [info@bq-microwave.de](mailto:info@bq-microwave.de) · [www.bq-microwave.de](http://www.bq-microwave.de)