



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 750 GHz / WR-1.5
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.

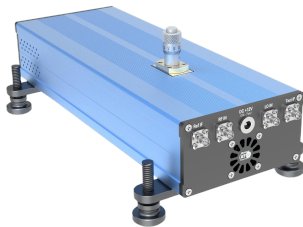
Competitive Pricing

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 · www.bq-microwave.de