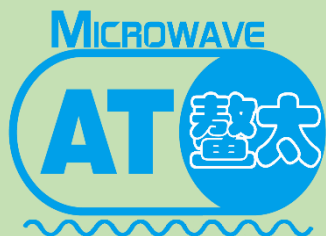


G Band(140-220GHz) Highlight Products

Shanghai AT Microwave Ltd.
sales@atmicrowave.com

Products Lines

1. Low Noise Amplifier
2. Power Amplifier
3. Frequency Multiplier
4. Tx/Rx Mixer
5. Band Pass Filter
6. Detector
7. Waveguide Section
8. Test Equipment

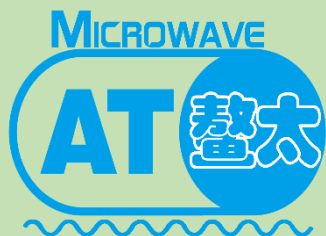
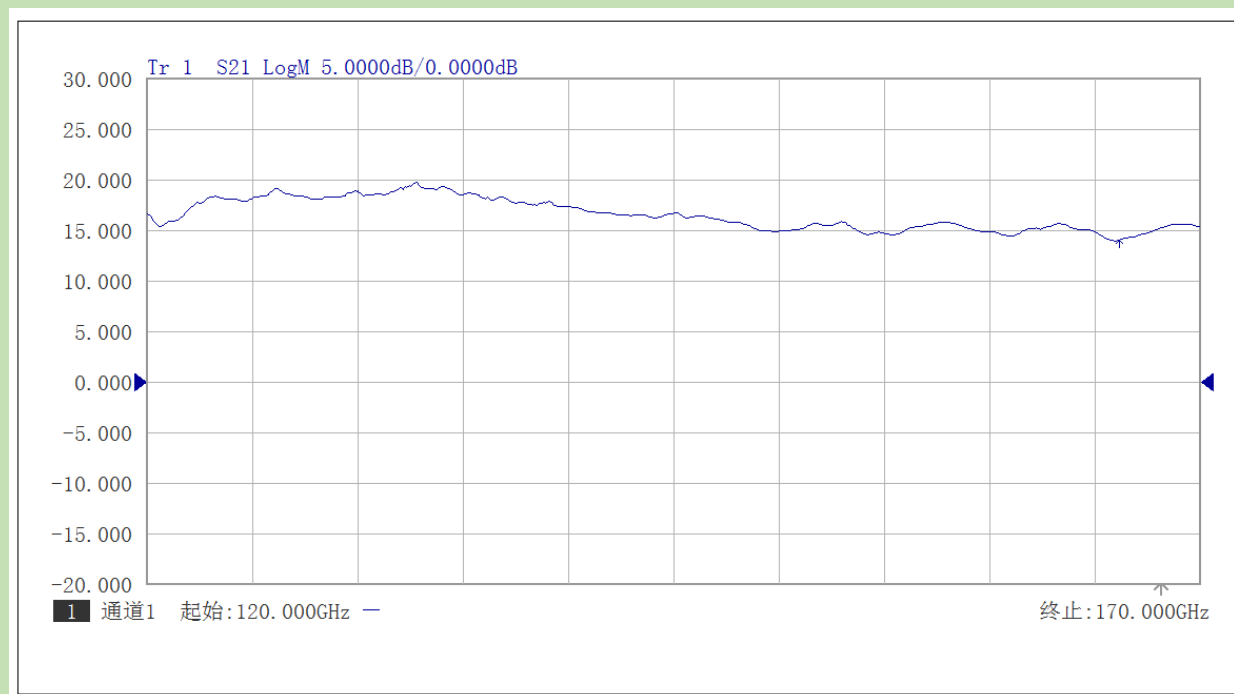


1. Low Noise Amplifier

PN: AT-LNA-120200-1506
AT-LNA-120200-3006

Advantages

- Frequency: 140-200GHz
- Gain: 15/30dB
- NF: 6dB
- WR-05

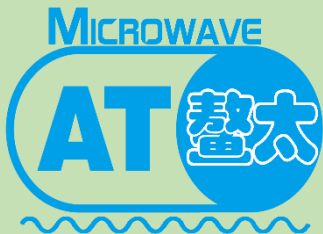
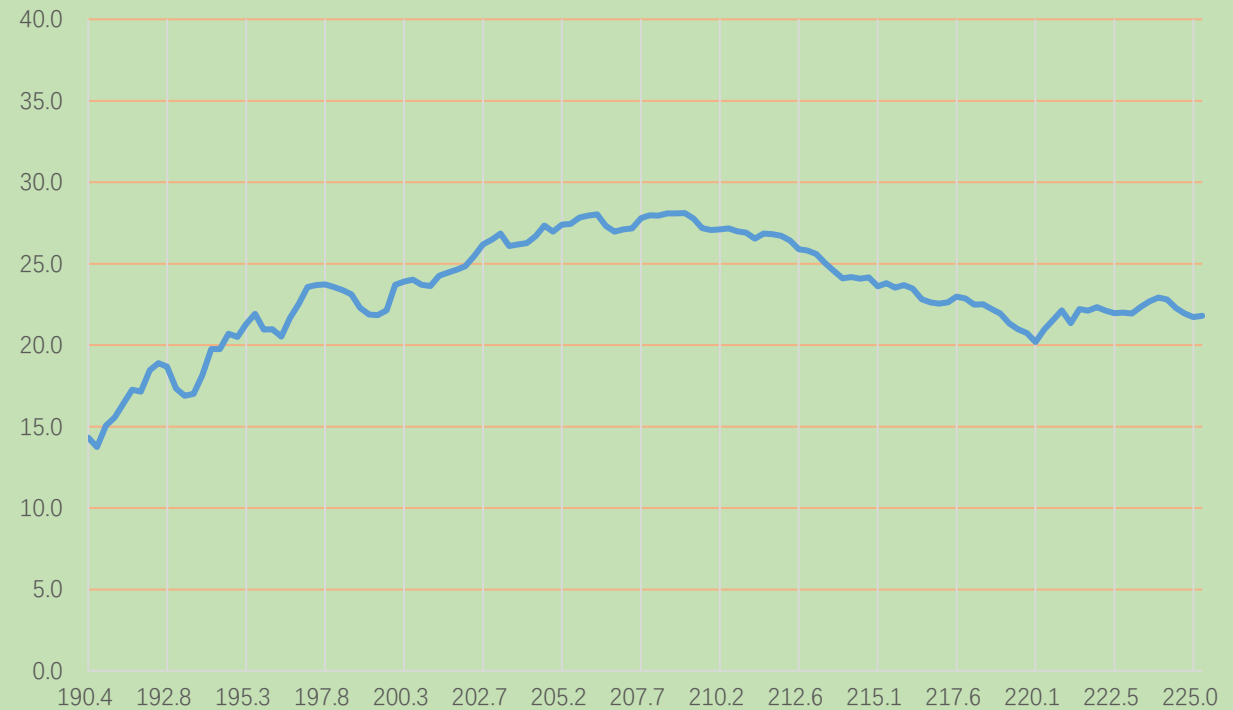


1. Low Noise Amplifier

PN: AT-LNA-195220-2008

Advantages

- Frequency: 195-220GHz
- Gain: 20dB
- NF: 8dB
- WR-05

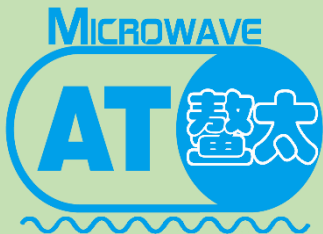


2. Power Amplifier

PN: AT-PA-195220-1810

Advantages

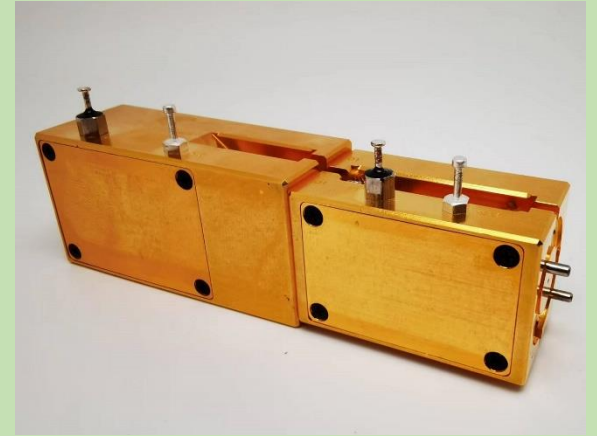
- Frequency: 195-220GHz
- Gain: 18dB
- Pout=+10dBm
- WR-05



Pout vs Frequency

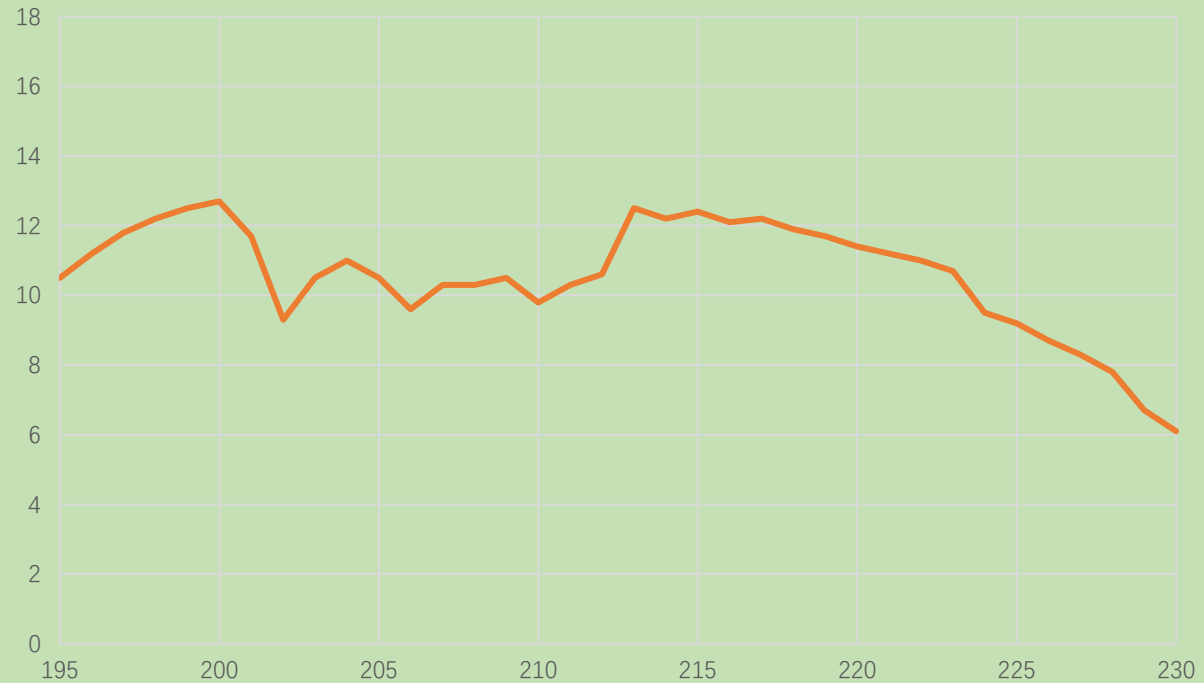
3. Frequency Multiplier

PN: AT-AM16-195225-10D1

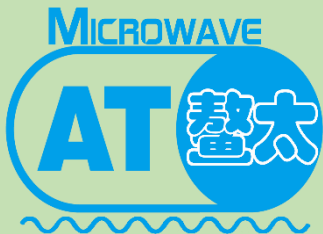


Advantages

- Frequency: 195-225GHz
- Power= +10dBm
- Output: WR-05



Pout vs Frequency

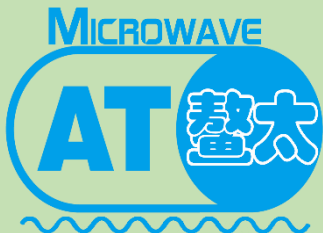


4. Compact Tx/Rx

PN: AT-16MIX-175200SIF

Advantages

- RF Frequency: 175-200GHz
- RF Port: WR-05
- LO Frequency: 10.9-12.5GHz
- LO Port: SMA
- LO Chain: X16
- IF Range: DC-12GHz
- Conversion Loss: -15dB
- Both for Tx/Rx



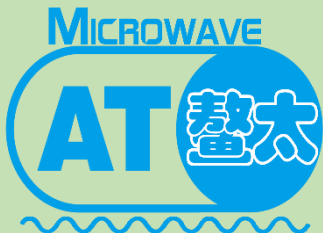
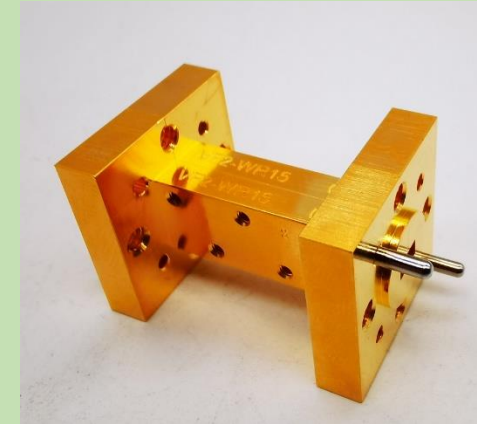
5. Waveguide Band-Pass-Filter

PN: AT-BPF-165175-05A

AT-BPF-174182-05A

Band Pass Filter

- ✓ 165-175GHz
- ✓ 174-185GHz
- ✓ WR-05

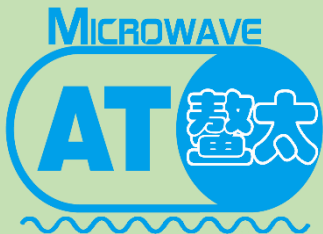


6. Detector

AT-PD-140200N1

Advantages

- RF Frequency: 140-200GHz
- RF Port: WR-05
- Sensitivity: 1000V/W



6. Waveguide Section

RSW Series:

Rugged Straight Waveguide

AT-RSW-1.25-WR05,

AT-SSW-1.25-WR05

Full G band, 1.25 inch

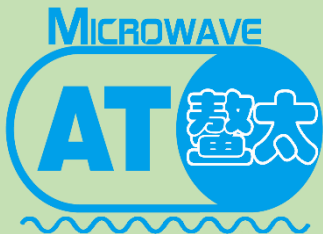
RWT Series:

Rugged Waveguide Transition

AT-WT-0805-1.0,

AT-WT-0605-1.0,

AT-WT-0504-1.0



9. Test Equipment

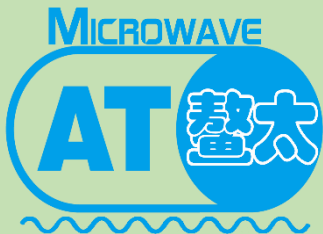
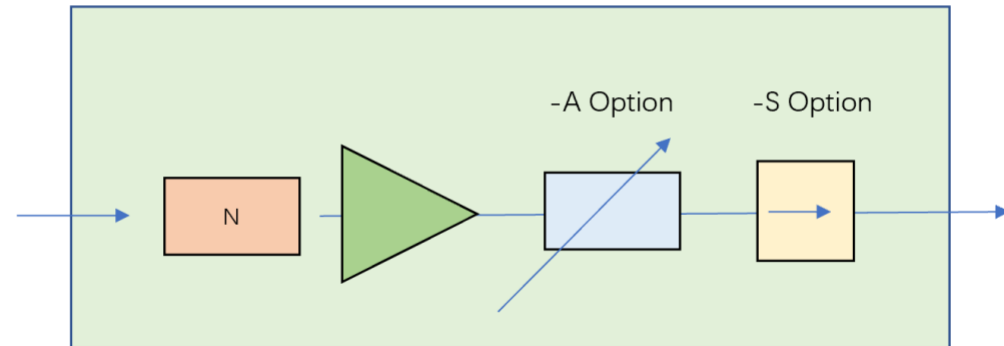
Signal Frequency Extender

AT-SFX12-05

- Frequency: 140-220GHz
- Multiplier Time: X12
- Pout= +3dBm



Block Diagram



9. Test Equipment

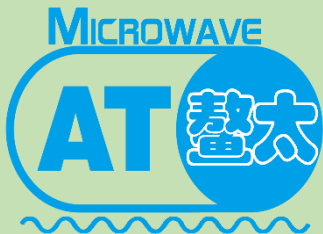
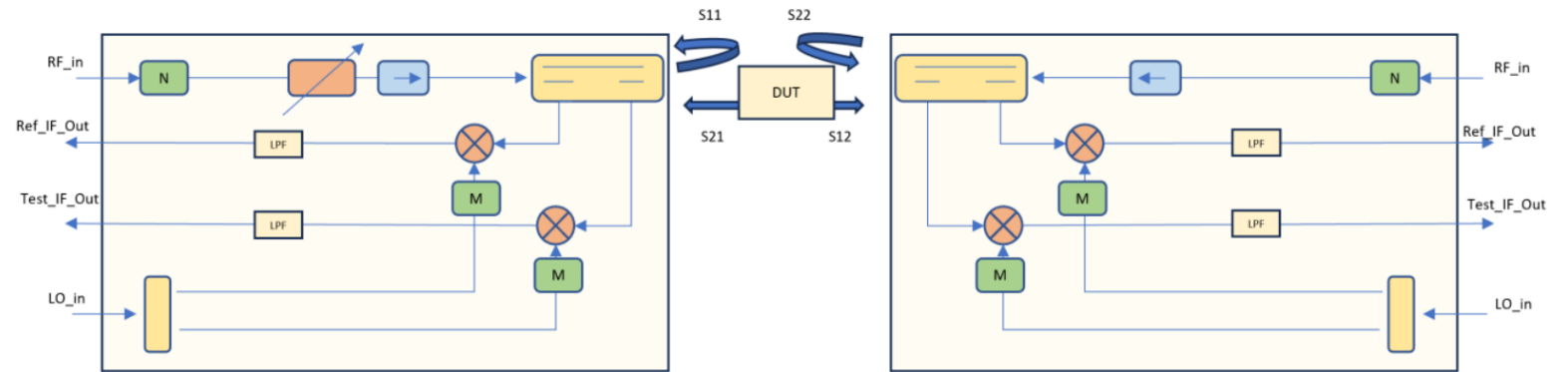
VNA Extender Module

AT-VEX-05



- Frequency: 140-220GHz
- Multiplier Time: X12
- Pout = -5dBm

-FTFR Option Diagram Block:

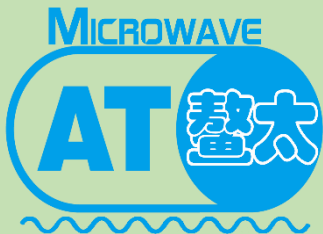
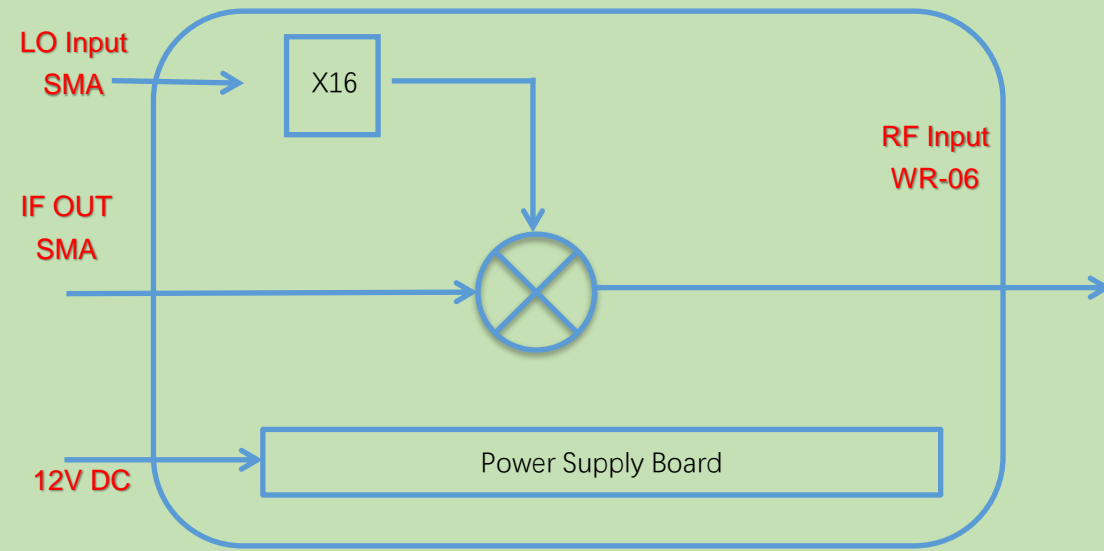


7. Test Equipment

Bench-top Up-converter

AT-BTUC16-175200

- Frequency: 175-200GHz
- Gain: -15dB
- Pout= -5dBm
- Connector: WR-05



7. Test Equipment

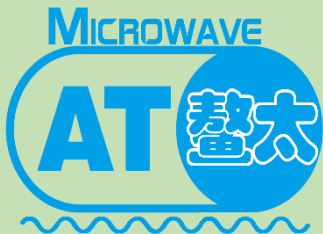
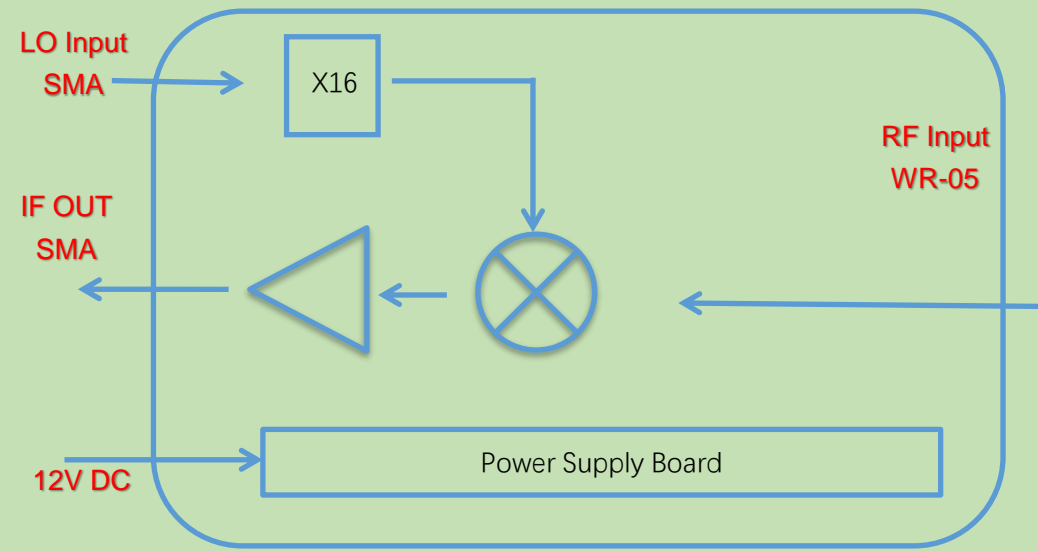
Bench-top **Down-converter**

For NF test and General Receiver



AT-BTDC-175200

- Frequency: 175200GHz
- Gain: 15dB
- WR-06



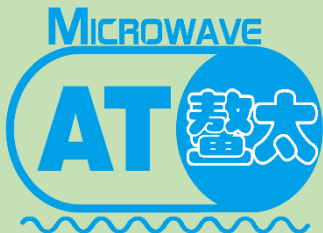
7. Test Equipment

Bench-top **Low Noise Amplifier**

AT-BTLNA-120200-1506

AT-BTLNA-120200-3006

- Frequency: 120-200GHz
- Gain: 15/30dB
- **NF: 6dB**
- Pout=0dBm
- Connector: WR-05

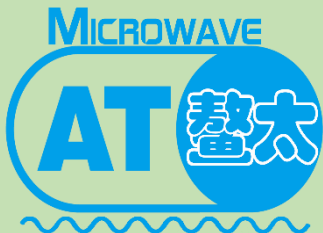


7. Test Equipment

Bench-top **Low Noise Amplifier**

AT-BTLNA-195220-2008

- Frequency: 195-220GHz
- Gain: 20dB
- **NF: 8dB**
- Pout=0dBm
- Connector: WR-05



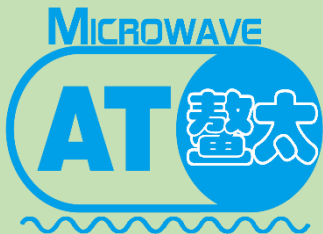
7. Test Equipment

Bench-top Power Amplifier

AT-BTPA-195220-1810

AT-BTPA-195220-3510

- Frequency: 195-220GHz
- Gain: 18/30dB
- Pout: +10dBm
- Connector: WR-05



7. Test Equipment

Bench-top **Frequency Extender**

AT-AM16-195225-10

- Frequency: 195-225GHz
- Multiplier Time: x16
- Pout= +10dBm

