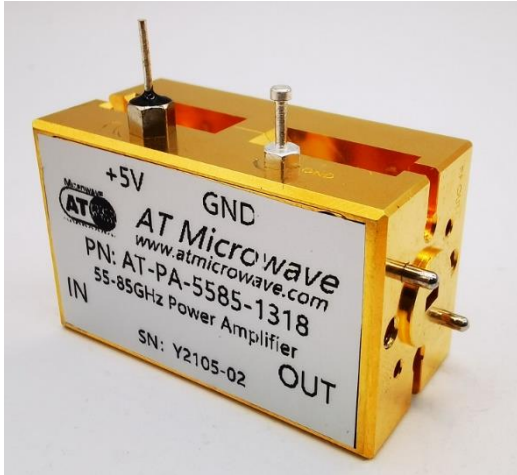


E Band Power Amplifier, Broadband



Product Overview

AT-PA-5585-1624 is power amplifier with +18dBm output power in the frequency of 55-85GHz. The DC power requirement is +5V/330mA. The module is with a standard WR-12 waveguide.

The power amplifier has high gain, high linearity, low input/output return loss and flat gain response.

More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 55-85GHz
- ✓ Psat:+18dBm
- ✓ Small signal gain: 13dB
- ✓ Single Power Supply

Application

- ✓ E Band Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Key Features

Parameter	Min	Typical	Max
Frequency		55-85GHz	
Gain	10dB	13dB	
Drain Supply		+5V	+8V
P1db		+16dBm	
Psat		+18dBm	
Current		330 mA	
Input Return Loss		-8dB	
Output Return Loss		-8dB	
Spec Temp		25C	





AT-PA-5585-1318C

55-85GHz Power Amplifier, Psat=+18dBm

Mechanical Information

Item	Description
Input Port	WR-12
Output Port	WR-12
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	100g
Size:	40x25X20 mm

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+10dBm
Operating Temperature	0 to +50C
Storage Temperature	-45 to +150C

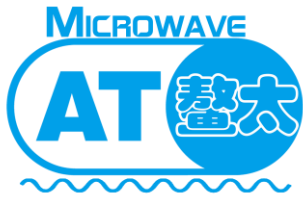
Caution:

Please pay attention to the case temperature. If case temperature exceed higher than +50C, heat sink and fan are required or the amplifier may be damaged.

Notes:

1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.

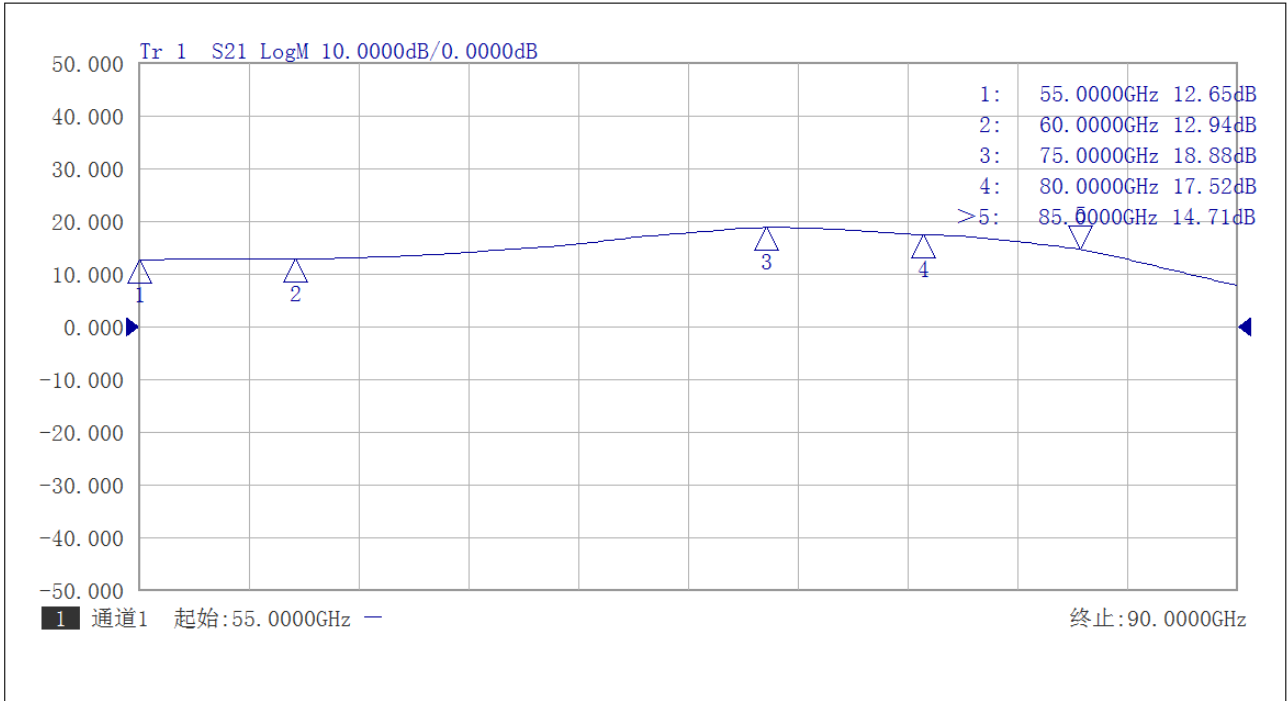




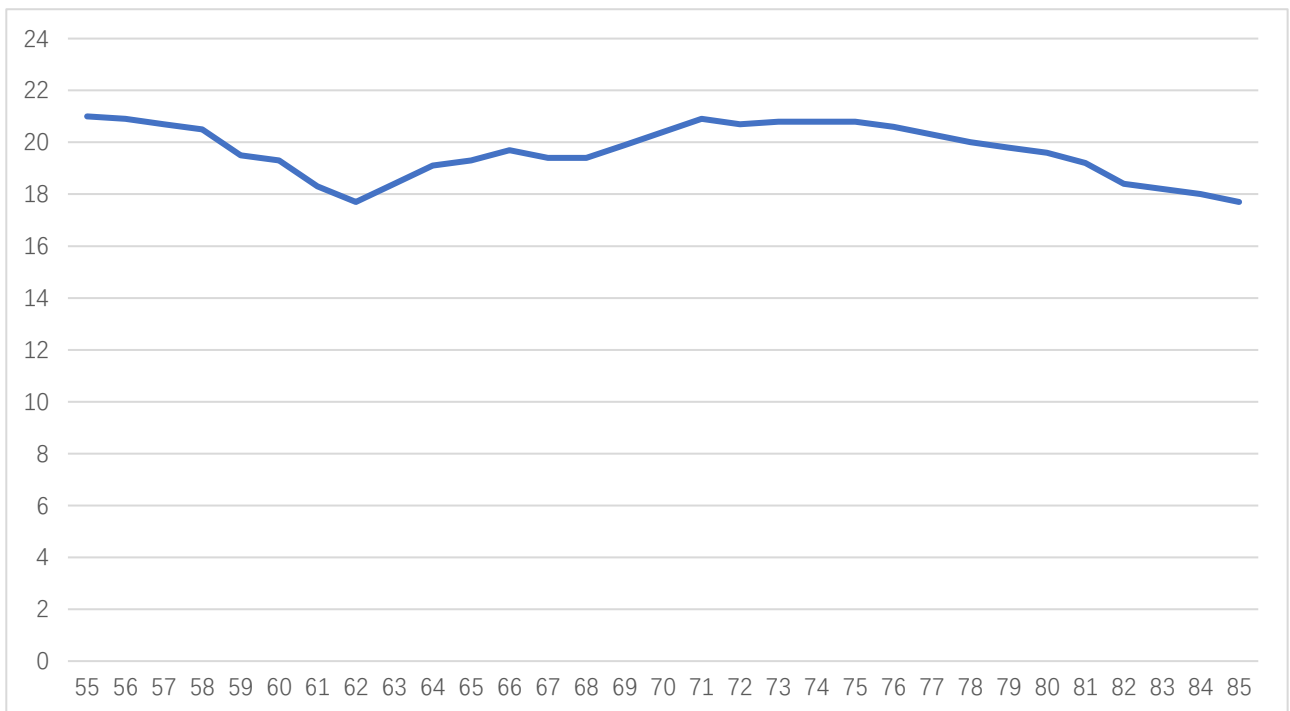
AT-PA-5585-1318C

55-85GHz Power Amplifier, Psat=+18dBm

Test Data:

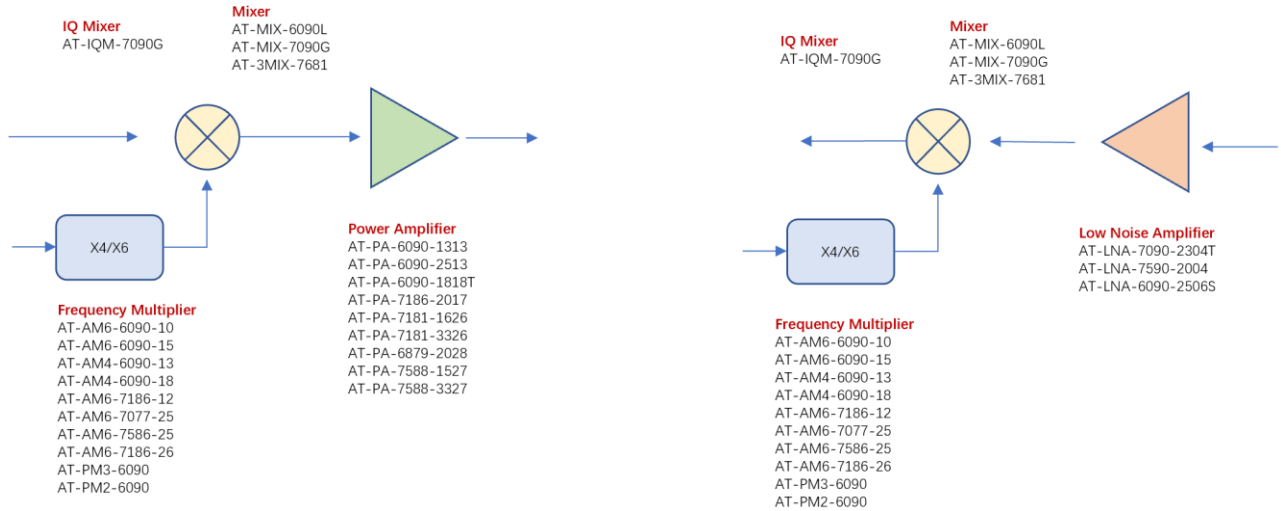


S21 vs Frequency



Psat vs Frequency

E Band 60-90GHz



Dimension: (unit in mm)

