

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

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.

Part Number Selection Guide

Item	Description
PN	Stand Module with DC Power Supply
PN-LCBT	L ow Cost, C ompact B ench- T op, +220V Supply with AC/DC Adapter

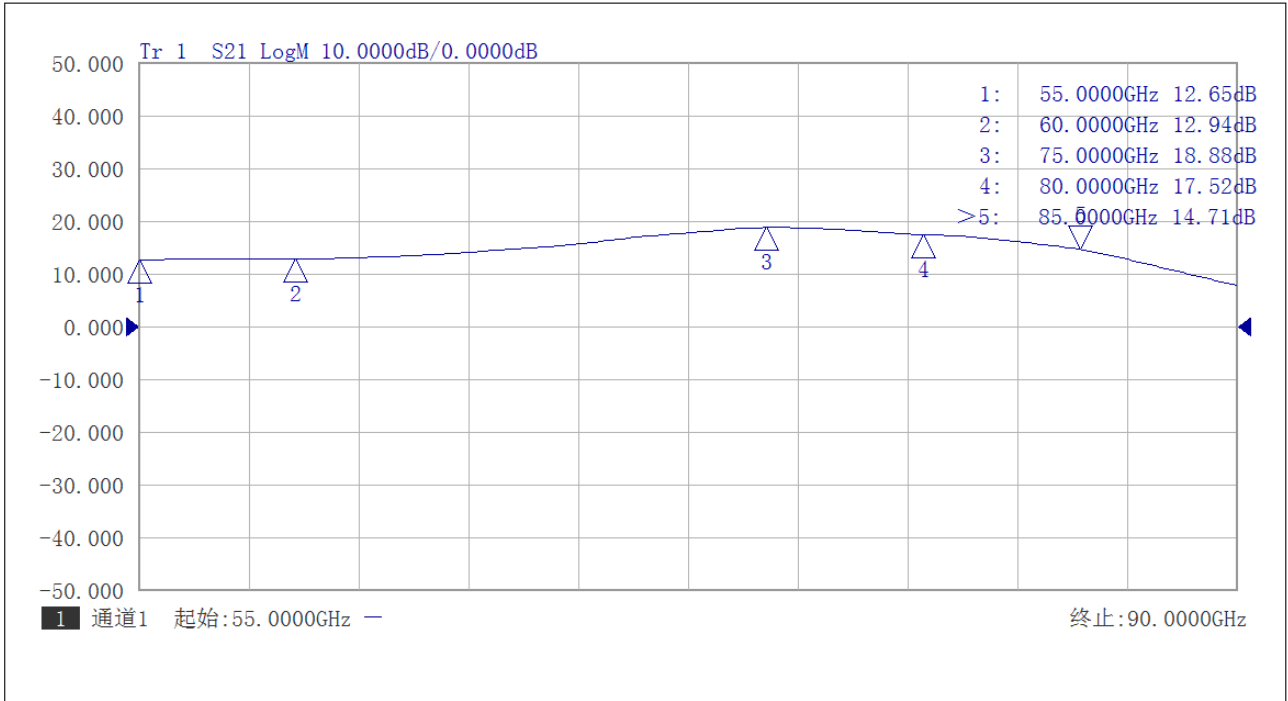




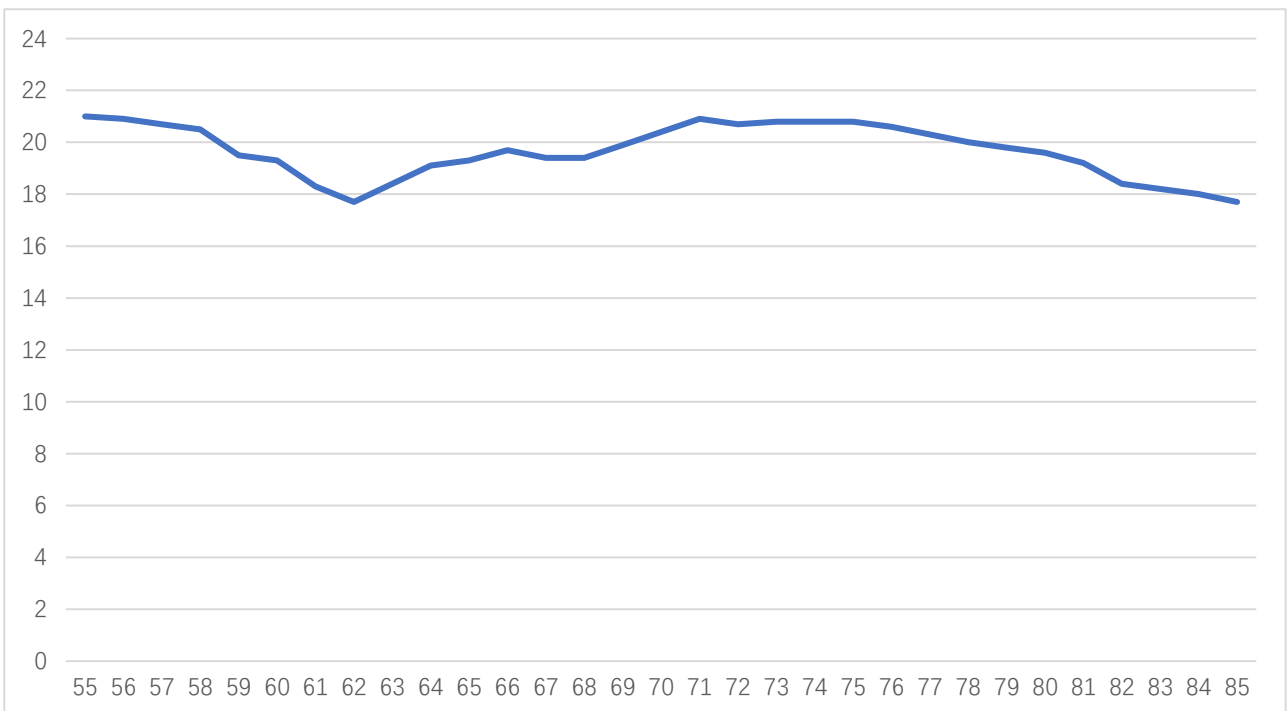
AT-PA-5585-1318C

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

Test Data:

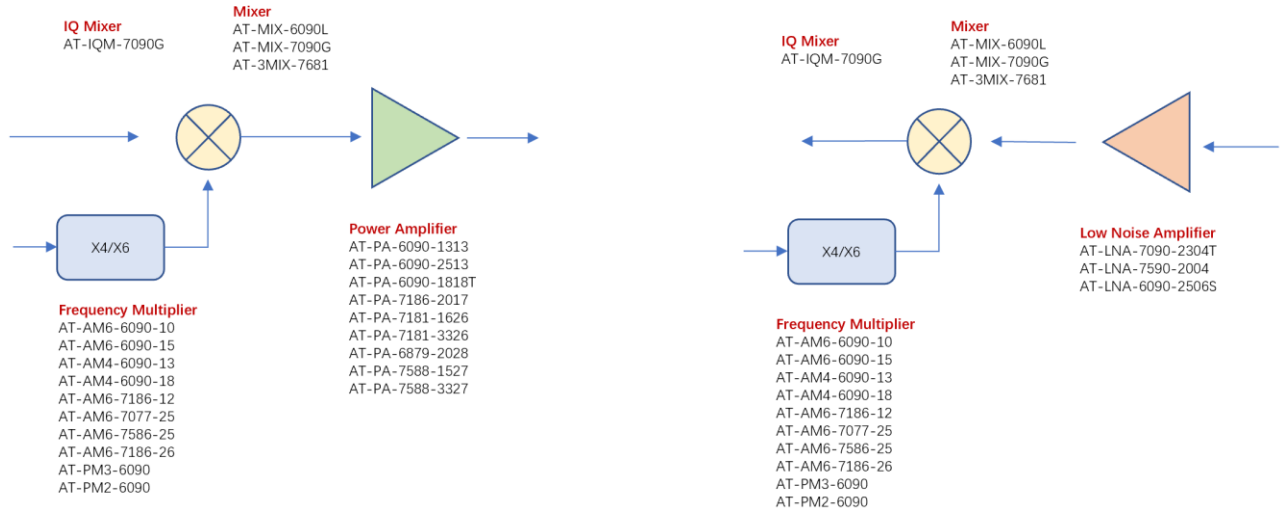


S21 vs Frequency



Psat vs Frequency

E Band 60-90GHz



Dimension: (unit in mm)

