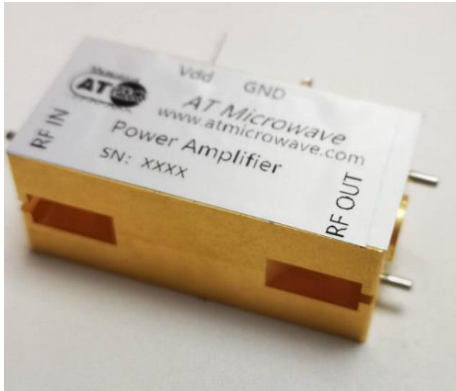


V Band High Power Amplifier



Product Overview

AT-PA-5070-1820C is high power amplifier with +20dBm output power in the frequency of 50-70GHz. The DC power requirement is +5V/400mA. The module is with a standard WR-15 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: 50-70GHz
- ✓ Psat:+20dBm
- ✓ Small signal gain: 18dB
- ✓ Single Power Supply

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		50-70GHz	75GHz
Gain	16	18dB	
P1Db		+18dBm	
Psat		+20dBm	
Drain Supply		+5V	+8V
Id NO RF		400 mA	
Id Psat		600mA	
Input Return Loss		-7dB	
Output Return Loss		-7dB	
Spec Temp		25C	





AT-PA-5070-1820C

50-70GHz Medium Power Amplifier

Mechanical Information

Item	Description
Input Port	WR-15
Output Port	WR-15
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	100g
Size:	40x25X20 mm

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+8V
RF Input Power	+15dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 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



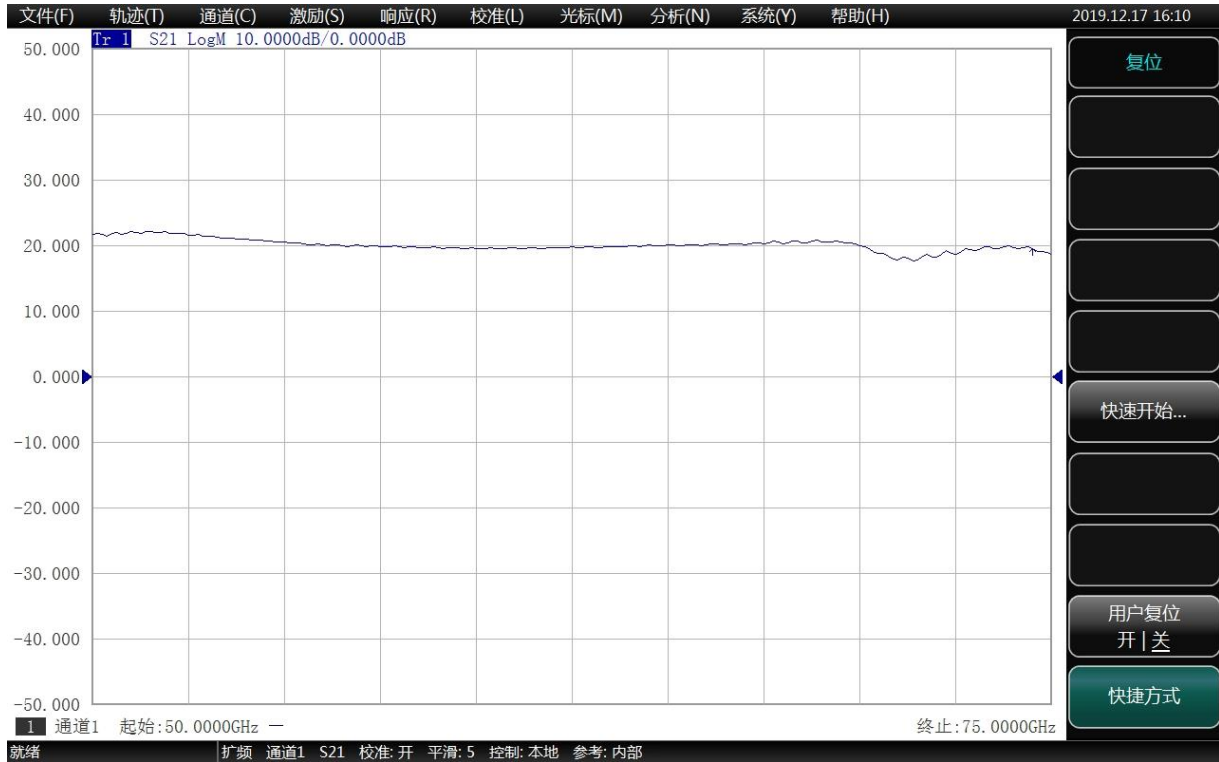


AT-PA-5070-1820C

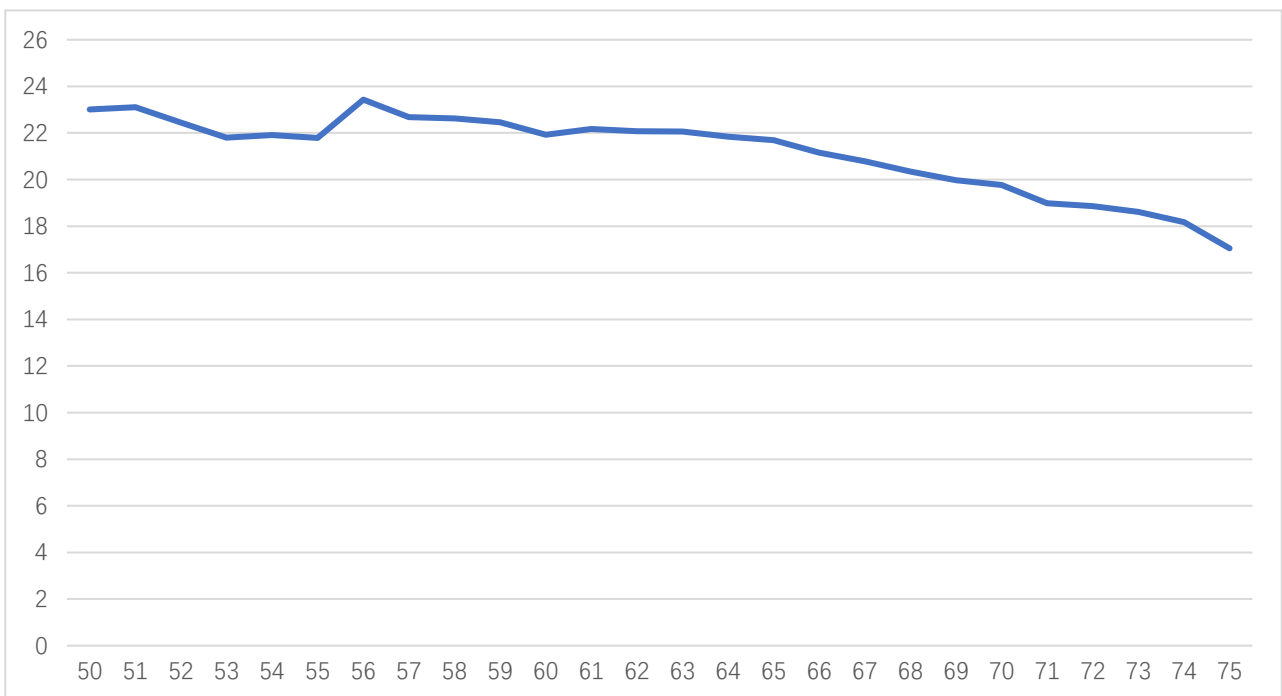
50-70GHz Medium Power Amplifier

Test Data

Vd=+5V, Id=380mA NO RF, Id=740mA at Psat, 25C



Gain vs Frequency, SN:191822-01



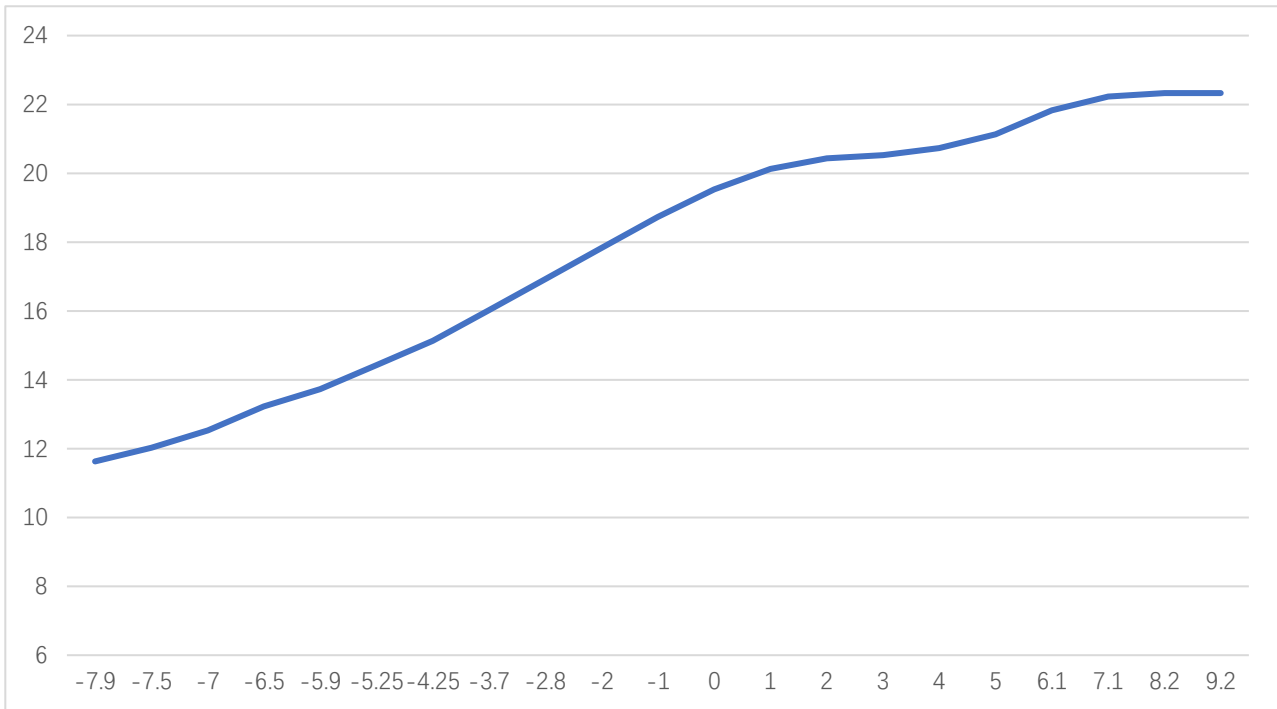
Pout vs Frequency, SN:191822-01





AT-PA-5070-1820C

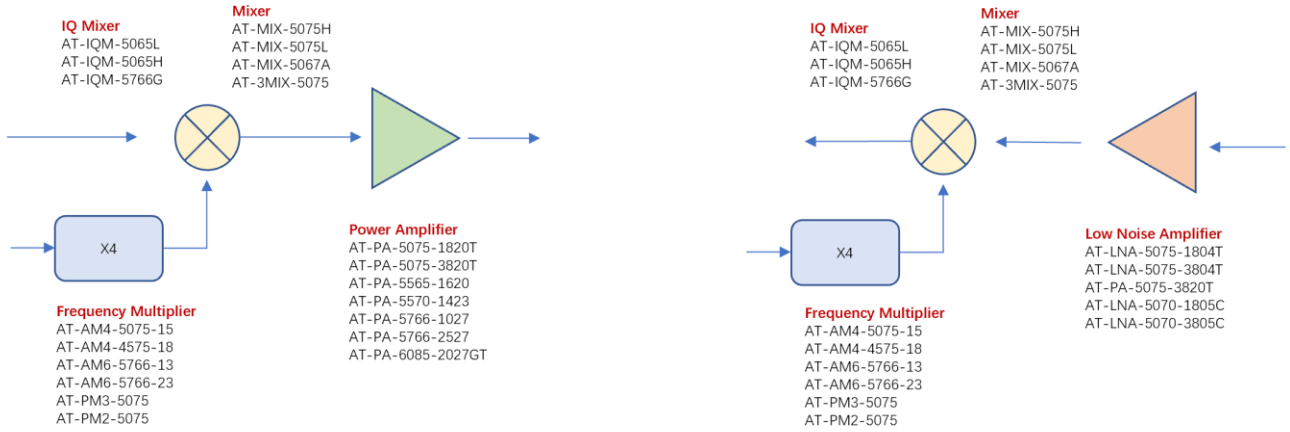
50-70GHz Medium Power Amplifier



Pout vs Pin at 60GHz, SN:191822-01



V Band 50-75GHz



Dimension: (unit in mm)

