

10MHz-47GHz Broadband Amplifier



Product Overview

AT-BB-0047-2520C is broadband amplifier from 10MHz-47GHz, with $P_{out}=+22\text{dBm}$, $NF=6\text{dB}$. It can be used both as Power amplifier or low noise amplifier.

The DC power requirement is +220V. The module is with 2.4mm Female

More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 10MHz-47GHz
- ✓ $P_{sat}=+22\text{dBm}$
- ✓ Small signal gain: 25dB
- ✓ Bench-Top Test

Application

- ✓ 5G Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Key Features

Parameter	Min	Typical	Max
Frequency		10MHz-47GHz	
Gain	23dB	25dB	
Gain Flatness		+/-3dB	+/-5dB
P1dB		10MHz-35GHz: +20dBm 35GHz-47GHz: +16dBm	
Psat		10MHz-35GHz: +22dBm 35GHz-47GHz: +18dBm	
Drain Supply	+90v	+220V	225V
Power Consumption		25W	
NF (1-25GHz)		6dB	
Input Return Loss		-10dB	
Output Return Loss		-10dB	
Spec Temp		25C	





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Mechanical Information

Item	Description
Input Port	2.4mm Female
Output Port	2.4mm Female
Case Material	Aluminum
Finish	Painting
Weight	1.6KG
Size:	See Outline

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+260V
RF Input Power	+10 dBm
Operating Temperature	-20 to +70C
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.





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Dimension: (unit in mm)

