

# AT-BB-0050-2720

10MHz-50GHz Broadband Amplifier

# **10MHz-50GHz Broadband Amplifier**



## **Product Overview**

AT-PA-0050-2720 is broadband amplifier from 10MHz-50GHz, with Pout=+20dBm, NF=6dB. It can be used both as Power amplifier or low noise amplifier. The DC power requirement is +8V/400mA. The module is with 2.4mm Female

The broadband amplifier has high gain, high linearity, low input/output return loss and flat gain response. More information, plase visit www.atmicrowave.com

### Advantages

- Frequency: 10MHz-50GHz  $\checkmark$
- $\checkmark$ Psat:+20dBm
- $\checkmark$ Small signal gain: 27dB
- Single Power Supply  $\checkmark$

## hplication

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

# **Key Features**

<ul><li>✓ Small signal g</li><li>✓ Single Power 3</li></ul>		<ul> <li>✓ ROF (RF Over Fiber)</li> <li>✓ Radar System</li> </ul>	
Key Features Parameter	Min	Typical	Max
Frequency		10MHz-50GHz	
Gain		27dB	
P1dB		10MHz-30GHz: +20dBm	
		30GHz-40GHz: +18dBm	
Psat		10MHz-30GHz: +22dBm	
		30GHz-40GHz: +20dBm	
Drain Supply	+5.5V	+8V	+10V
Current		400 mA	
NF		6dB	
Input VSWR		1.5	2.2
Output VSWR		2.0	2.8
Dimension		45x34x8.5 mm	
Connector		2.4mm Female	



#### Shanghai AT Microwave Limited



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### Absolute Maximum Ratings Table

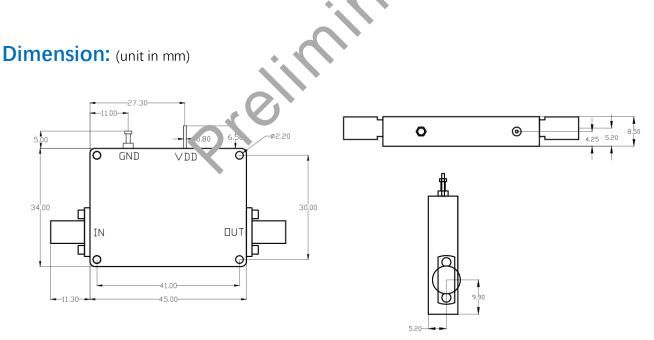
Parameter	Value	
Drain Supply	+13V	
RF Input Power	0 dBm	
Operating Temperature	0 to +50C	
Storage Temperature	-65 to +150C	

#### 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.



In millimetres The 11.30 size marked is 1.85mm female connector if use SMA female the size is 9.4 and 2.92mm female is 9.5

# Heat Sink Required During Operation

