AT-PA-1840-1820X

18-40GHz Power Amplifier

18-40GHz Broadband Amplifier,

Gain=18dB, Pout=+20dBm, 2.92mm Female

Product Overview

AT-PA-1840-1820X is high gain power amplifier with +20dBm output power in the frequency of 18-40GHz. The DC power requirement is +8V/200mA. The module is with 2.92mm connector.

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: 18-40GHz
- ✓ Pout:+20dBm
- ✓ Small signal gain: 18dB
- ✓ Single Power Supply

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		18-40GHz	
Gain	17dB	18dB	
Gain Flatness		+/-1.5dB	+/-2.5dB
P1dB	+18dBm	+19dBm	
Psat	+20dBm	+21dBm	
Drain Supply		+7 to 12V	
Current		200 mA	230mA
Input Return Loss		-10dB	
Output Return Loss		-10dB	
Spec Temp		25C	

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Mechanical Information

Item	Description
Input Port	2.92mm Female
Output Port	2.92mm Female
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	90g
Size:	30x30x14 mm

Absolute Maximum Ratings Table

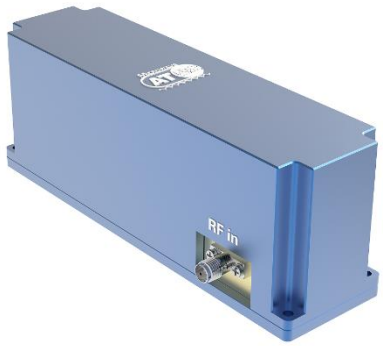
Parameter	Value
Drain Supply	+13V
RF Input Power	+18 dBm
Operating Temperature	-20 to +70C
Storage Temperature	-65 to +150C

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.

Part Number Selection Guide

Item	Description
PN	Stand Module with DC Power Supply
PN-LCBT	Low Cost, Compact Bench-Top, +220V Supply with AC/DC Adapter



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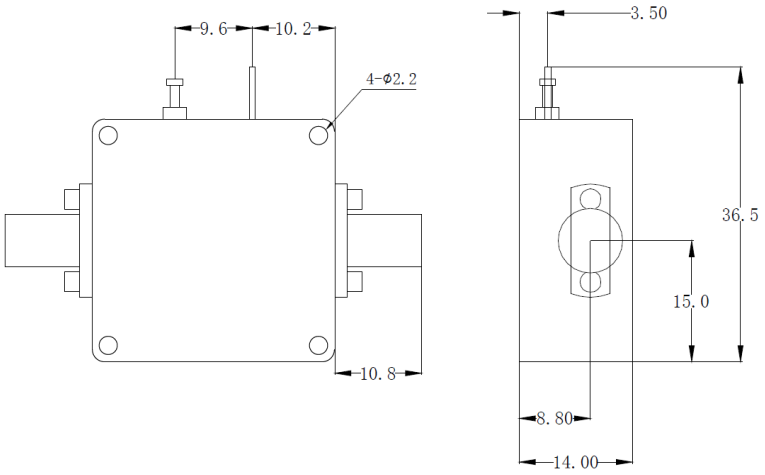
Test Data

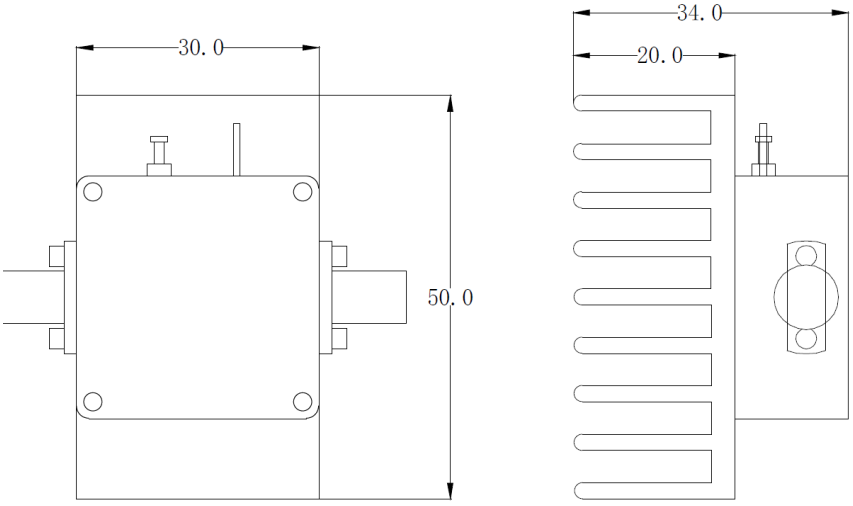
Please note that test curves will vary slightly from unit to unit.
To be added.

Dimension: (unit in mm)



	<26.5GHz	<40GHz	<50GHz	<67GHz
Connector	SMA	2.92mm	2.4mm	1.85mm
Lenth of a	9.4mm	9.5mm	10.8mm	11.3mm

Note: Female Default. Contact with us for other types.



Including a small heatsink without Fan if output Power higher than +20dBm.
Customers can remove it or use their own heatsink according to actual situation.

Heat Sink Required During Operation if case Temp higher than 50C

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