

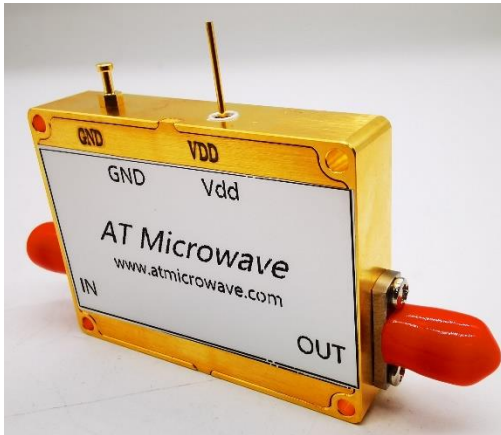


AT-LIA-0220-N28P12-4504P18

2-20GHz Limiting Amplifier

2-20GHz Limiting Amplifier

Dynamic Range -28 to +12dBm



Product Overview

AT-LIA-0220-N28P12-4504P18 is a broadband limiting amplifier with 2-20GHz. The small signal gain is 45dB, and limiting range is -28dBm to +12dBm with +18dBm output power.

The power supply range is from +8V to +15V. Input and Output connectors are SMA Female. Operating temperature range is -40 to +85C with good flatness gain.

For more information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 2-20GHz
- ✓ Small signal gain: 45dB
- ✓ NF=4dB
- ✓ Pout=+18dBm

Application

- ✓ Electronical Warfare
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Key Features

Parameter	Min	Typical	Max
Frequency		2-20GHz	
Gain	42dB	45dB	
Gain Flatness		+/-2dB	
NF		4dB	5dB
Psat		+18dBm	
Power Flatness		+/-2dB	
Limiting Dynamic Range		-28 to 12dBm	
Drain Supply	+8V	+12V	+15V
Idd		350mA	
Input Return Loss		-10dB	
Output Return Loss		-10dB	
Spec Temp		25C	

Shanghai AT Microwave Limited

Tel:021-6229 1233

Email:sales@atmicrowave.com

www.atmicrowave.com





AT-LIA-0220-N28P12-4504P18

2-20GHz Limiting Amplifier

Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	SMA Female
Case Material	Copper
Finish	Gold Plated
Package Sealing	Epoxy Sealed
Weight	80g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+16V
RF Input Power	+18 dBm
Operating Temperature(note)	-40 to + 85C
Storage Temperature	-65 to +145C

Caution:

Please pay attention to the case temperature. If case temperature exceed higher than +45C, 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.





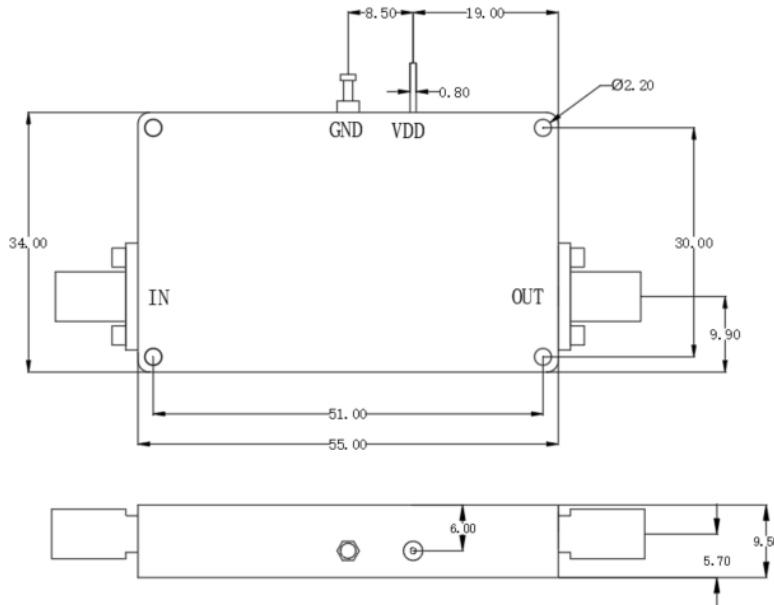
AT-LIA-0220-N28P12-4504P18

2-20GHz Limiting Amplifier

Test Data (25C)

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

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.

Heatsink required if case temp over 50C

