



Shenzhen Sinosun Technology Co.,Ltd.

# Technical Specification

File Number: SINOSUN-BDA-10

Model Name: BDA-10

Product Name: Bi-Directional RF Amplifier

Compilation/Date:

Review/Date:

Approval/Date:

Amendment No.	Modify The Content	Modified Date

# 1.Bi-Directional Rf Amplifier

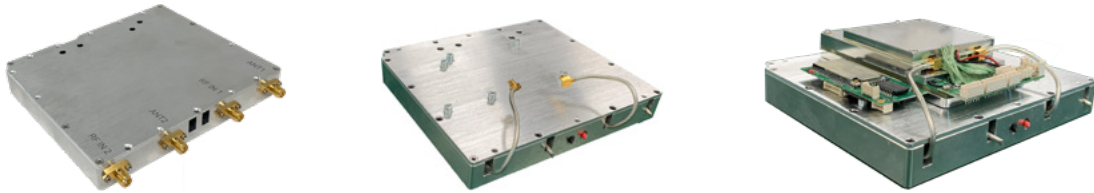


Figure:Bi-Directional RF Amplifier

## 2.Bi-Directional Rf Amplifier Specifications

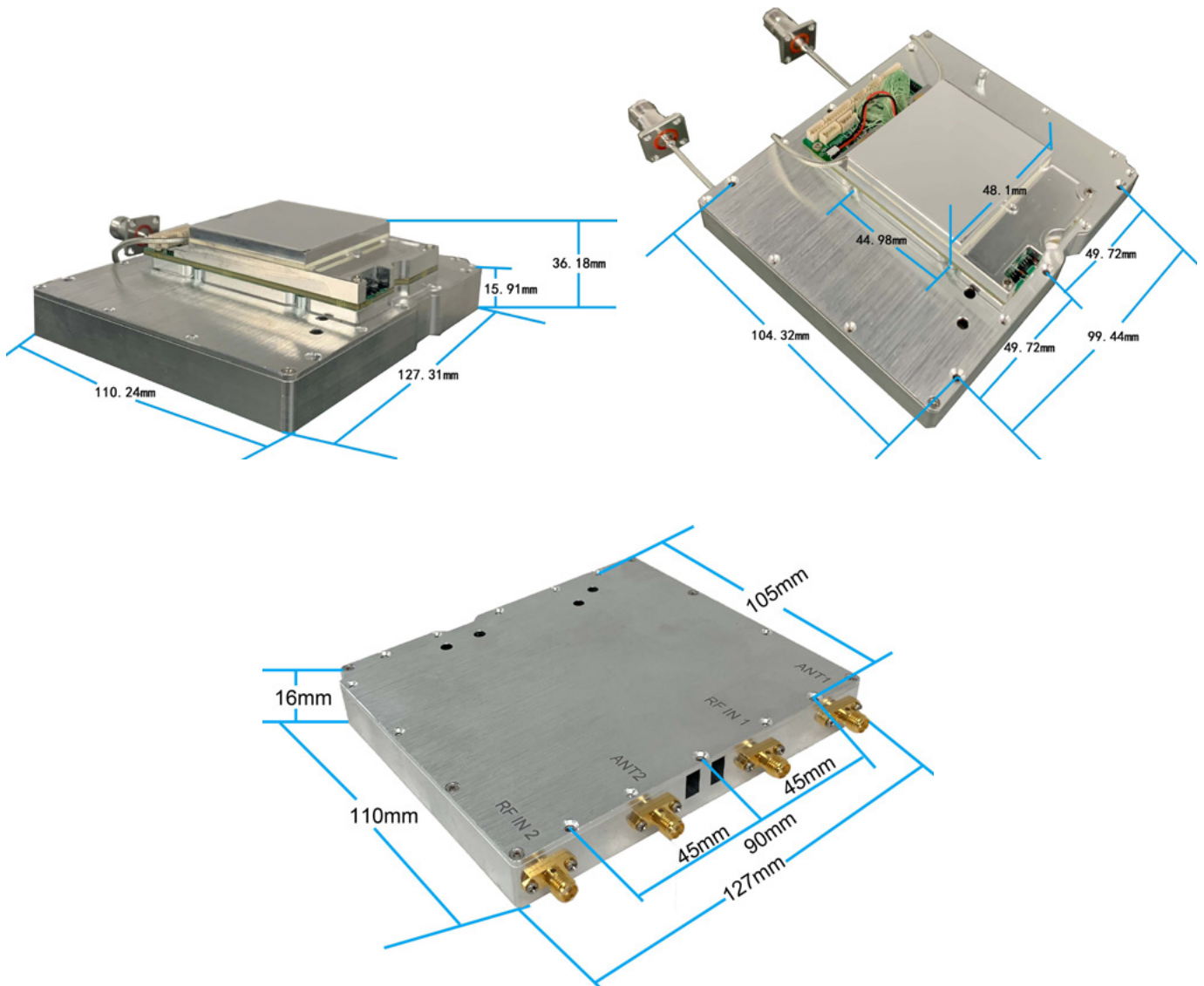
Frequency	225-400/400-700/840-845/902-928MHz, 1.0-1.5/2.0-2.5/4.4-5.0/5.0-6.0GHz	
Bandwidth	2M/4M/5M/10M/20M/40M/100MHz	
TX Power Gain	20-27dB	
RX Gain	7-10dB	
DC Supply Voltage	18-28V	
Tx Power O/P	Modulation Mode	Power
Tx Power O/P	P1dB	> 25W
	QAM64	8W
	QAM16	10W
	QPSK	13W
Rx/Tx Switching	<1 $\mu$ s	
Input Signal	13-20dBm	
Impedance	50 $\Omega$	
Power Consumption	$\leq$ 120W (At 40dBm output)	
Connector	SMA mother (RF input, RF output)	
Weight	410g	
2x2 Size	11x12.7x1.6cm	

### 3.Bi-Directional Rf Amplifier Overview

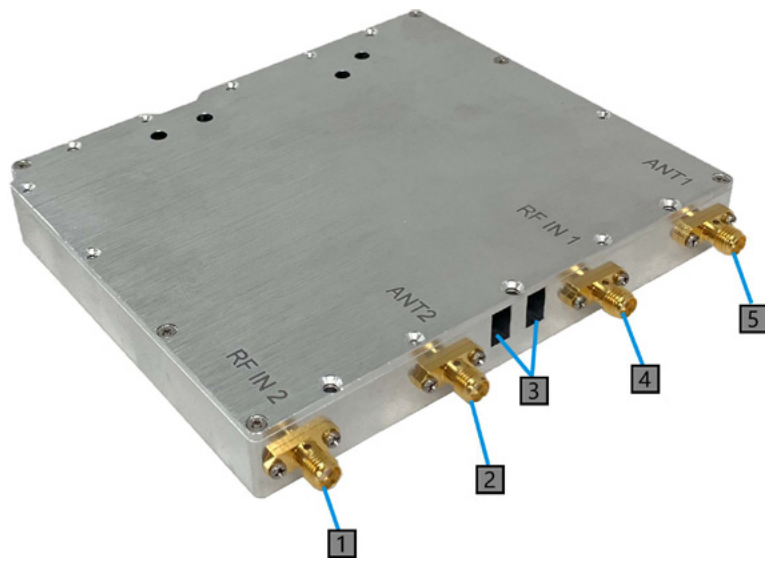
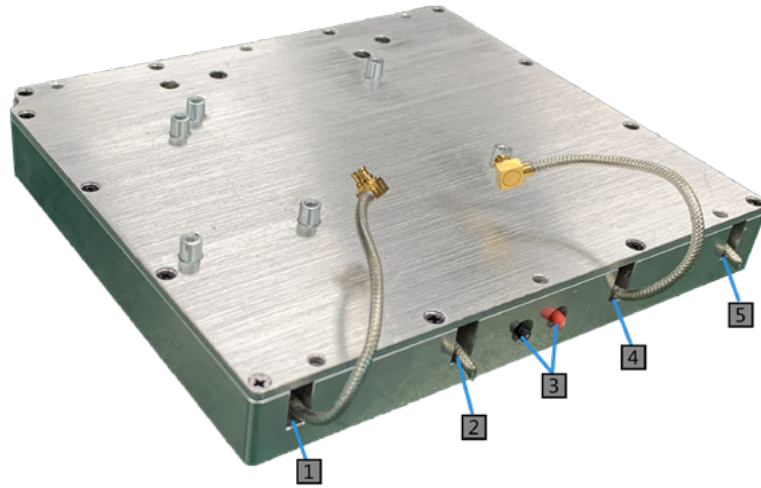
BiAMP RF Power Amplifier Provides 40/20/10/5W,150M/230M/400M/600M/800M/900M/1.4G/2.3G/5GHz Linear/Nonlinear RF Amplifier, Designed For Broadband/Narrowband Digital Data Link Applications. This Series of Amplifiers Adopts Silicon Based Potassium Nitride Power Amplifier, High Speed Automatic Tx/Rx Switching,High Efficiency RF Output.

- Supports 1\*1、 2\*2 MIMO, integrated sending and receiving
- Single output up to 40W
- RX band pass filtering
- Automatic Rx/Tx switching
- Manual or Automatic Tx/Rx Switching Available
- Automatic gain control, wide voltage input
- Perfect protection design
- Tx/Rx LEDs
- Small size, light weight, stable and reliable

### 4.Bi-Directional Rf Amplifier Dimension Figure



## 5.Bi-Directional RF Amplifier Hardware Interfaces



- |                   |                    |                       |
|-------------------|--------------------|-----------------------|
| <b>1</b> A1 Input | <b>2</b> A1 Output | <b>3</b> Power Supply |
| <b>4</b> A2 Input | <b>5</b> A2 Output |                       |