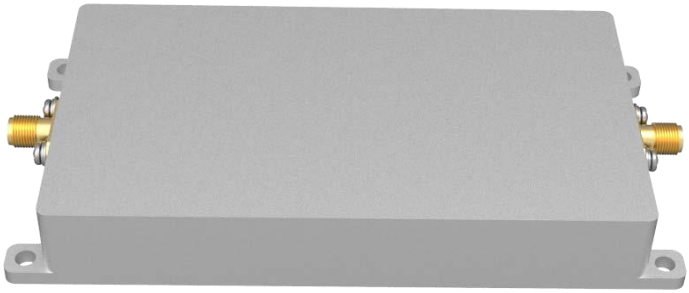
RF Bidirectional Amplifier

CE-YNX-SX-14152SC

1.4GHz Radio station bidirectional power amplifier

Product Introduction

This product is a bidirectional power amplifier developed specifically for the 1.4GHz frequency band and meets the radio station transmission standards. This product matches frequency extension technologies such as direct sequence (DSSS) and orthogonal frequency division multiplexing (OFDM). It uses Time Division Duplex (TDD) fast microwave detection technology and linear power amplifier technology to greatly extend the wireless RF communication distance while ensuring that the transmission rate of wireless devices remains unchanged.



Product Features

- Operatingfrequencyband:1.42~1.47GHz
- Operatingvoltage:8~24V(default12V)
- Receivegain:10~25dB(default18dB)
- Transmitgain:10~25dB(default18dB)
- Inputpowerrange:5~25dBm
- Outputpower(P1dB):43dBm(20W)
- EVM:5%@37dBm802.11g54MbpsOFDM64QAMBW20MHz
- Operating current: 1800mA@Pout37dBm12V
- Noisefigure:≤3.0dB
- Transmissiondelay:≤1μs
- Operatingtemperature:-20℃~60℃

Application Areas

- 1.4G wireless LAN access point, client
- Based on 1.4GHz navigation system
- Based on 1.4GHz IoT transmission
- 1.4GHz drone remote control, image transmission

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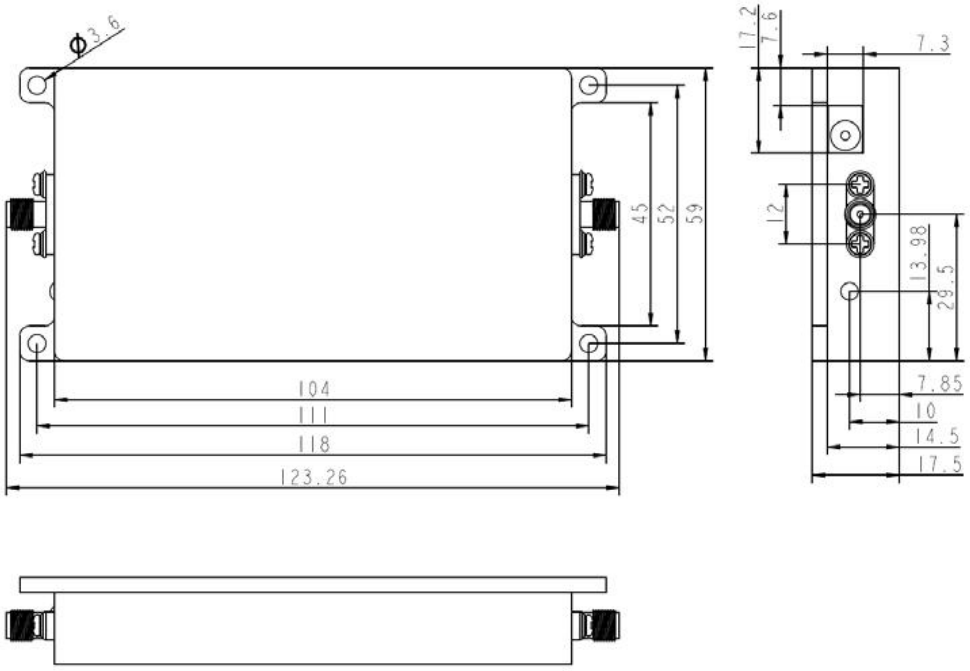
Physical Structure

- Shell size: 118*59*17mm
- RF interface: input end is SMA external thread inner hole; output end is SMA external thread inner needle
- Power supply port: 6.0*2.0mm DC connector
- Shell: Aluminum, natural color conductive oxide sandblasting
- Fixing holes: Four fixing holes around the shell
- Net weight: 0.190KG



Precautions for use

- Requires a power supply capacity of 12V/5A or 60W or above
- If the output power is greater than 5W or above, it is recommended to enhance the heat dissipation, such as adding a heat sink or a fan
- When connecting, first screw on the antenna, then connect the front-end signal source device, and finally supply power

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