



5.8GHz Active Integrated Antenna with LNA and Switch

Description

BHWR580L is a complete RF Front-End solution from BHW's RF Active integrated Antenna (RFAiA™) product family. It integrates a low noise amplifier with ultra-low 1.7dB total noise figure and 10dB gain, and a pair of antennas for Tx/Rx and very stable VSWR under various PCB size and housing conditions, all into a compact 16x12mm design. The separate Tx/Rx antenna architecture minimizes switch loss and allows the insertion of any power amplifier to further boost the transmit power. BHWR580L can be easily surface-mounted to the main product board without requiring any additional impedance matching, resulting in significantly simplified RF design and shorter product development cycle.

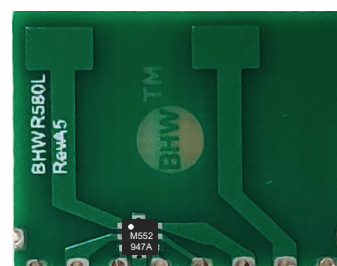
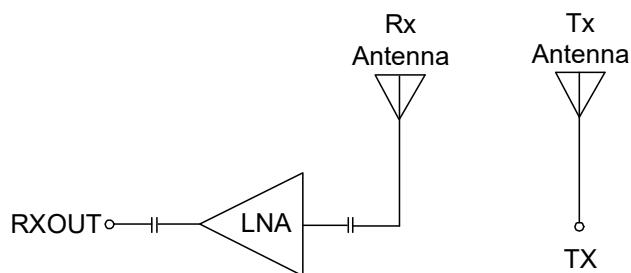
Key Features

- 5.75-5.85GHz Operation Frequency Range
- Rx Noise Figure: 1.7dB; Gain: 10dB
- LNA Current: 12mA (3.3V)
- No External Matching Required
- Separate Tx/Rx Antenna Architecture
- Option for Insertion of Transmit PA
- ESD Protection on All I/O Ports
- Compact 16x12mm footprint for SMT

Key Applications

- 5.8GHz Wireless Audio/Video
- 5.8GHz Data Transmission
- UAV/Drones
- Remote Control
- Generic 5GHz TDD Radio Designs

Functional Block and Product Information



16x12x0.6mm PCB (After BHW552 Assembly)



BHWR580L

Product Brief

5.8GHz Active Integrated Antenna with LNA and Switch

For further information, please email to support@bhwtechnologies.com, or contact your local BHW Sales Rep or Distributor. We will send you the complete product datasheet as well as EVB related information.