



2.4GHz Active Integrated Antenna with Low Noise Amplifier

Description

BHWR250N is a complete 2.4GHz Receive Front-End solution from BHW's RF Active integrated Antenna (RFAiA™) product family. It integrates a low noise amplifier with ultra-low 1dB total noise figure and 12dB gain and a compact antenna with high efficiency and very stable VSWR under various PCB size and housing conditions, all into a compact 16x12mm design.

BHWR250N 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.

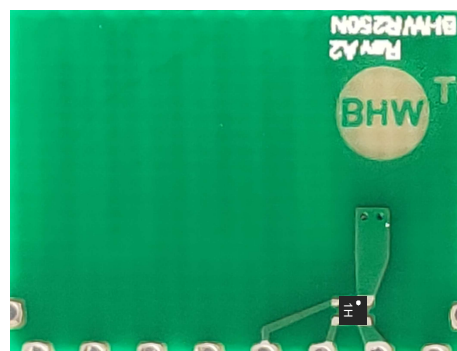
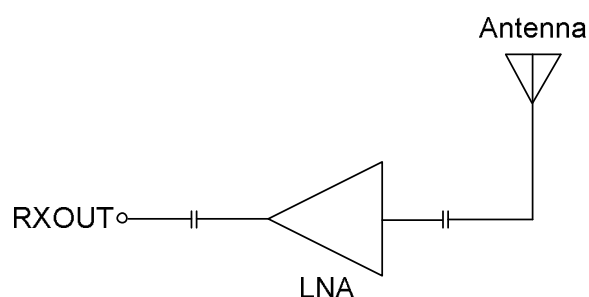
Key Features

- 2.4-2.5GHz Operation Frequency Range
- Operating Voltage: 1.2~4.2V
- LNA Noise Figure: 1.0dB; Gain: 12dB
- LNA Current: 8mA at Vdd=3.3V (Adjustable)
- Stable VSWR over PCB/Housing Variations
- Excellent Suppression of Cellular Signals
- Robust ESD Protection
- Compact 16x12mm footprint for SMT

Key Applications

- Bluetooth AoA/AoD
- Remote Control
- Wireless Audio/Video
- Generic 2.4GHz Receiver Designs

Functional Block and Product Information



16x12x0.6mm PCB (with BHWL161)



BHWR250N

Product Brief

2.4GHz Active Integrated Antenna with Low Noise Amplifier

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.