



## 2.4GHz GaAs RF Front-End with LNA, Switch and Bypass

### Description

BHWM256 is an RF Front-End IC in advanced GaAs E/D-PHEMT process that integrates an SPDT switch and low noise amplifier with bypass, for operation over a wide frequency range from 2 to 3GHz. The device features on-chip impedance matching for all RF ports (in 2.4-2.5GHz band), and is offered in an ultra-compact, 1.5x1.5mm 8-Lead DFN (Dual Flat No-Lead) package. It has integrated ESD protection circuits on all I/O ports.

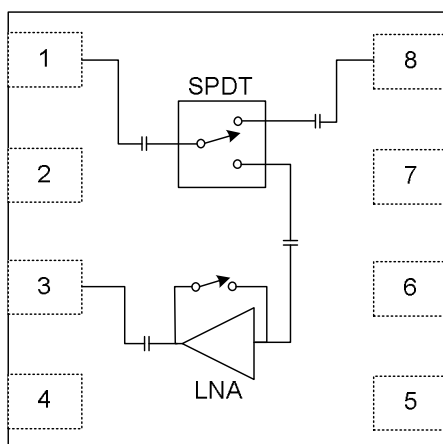
### Key Features

- Advanced GaAs E/D PHEMT Process
- Tx Insertion Loss: 0.7dB
- Low Rx NF: 1.6dB
- Rx Gain: 14dB
- LNA Current: 15mA
- LNA Gain Step: 25dB
- Fully Matched RF Ports for 2.4-2.5GHz Band
- Integrated ESD on All I/O Ports
- Ultra-Small 1.5x1.5mm DFN Package

### Key Applications

- IEEE 802.11 Wi-Fi Systems
- ZigBee/Thread, BLE, IoT
- 2.4GHz Wireless Audio/Video
- Remote Control
- Generic 2.4GHz TDD Radio Designs

### Functional Block and Package Information



1.5x1.5x0.45mm 8L DFN



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*For further information, please email to [support@bhwtechnologies.com](mailto: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.*