



Wideband 4-6GHz 1-Watt High-Efficiency Power Amplifier

Description

BHWA555 is a wideband, high-gain, high-efficiency power amplifier designed in advanced GaAs/InGaP process, capable of delivering up to 1-watt output power in the 4-6GHz frequency band. It features full on-chip input impedance match, and requires one capacitor only for output match for most use cases. It also integrates active bias circuitry, power detector and ESD protection circuits. BHWA555 is highly flexible and can be optimized to work over a wide range of supply voltage and bias current, to meet customer requirements with best efficiency. The device is housed in a compact 3x3mm, 16-Lead QFN (Quad Flat No-Lead) package.

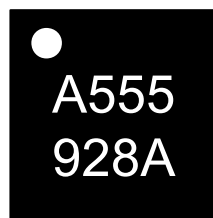
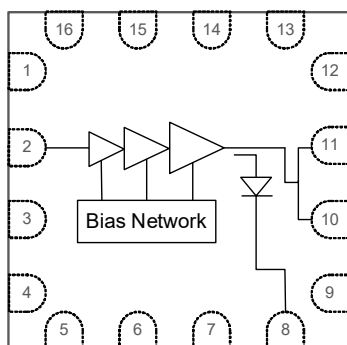
Key Features

- Advanced GaAs/InGaP HBT Process
- Frequency Range: 4~6GHz Operational
- Supply Voltage: 3~5V Selectable
- Bias Current: 30~200mA Adjustable
- Power Gain: Up to 28dB at 5.85GHz
- Output P1dB: Up to +28.5dBm at 5.85GHz
- Saturated Output: Up to +30.5dBm at 5.85GHz
- High PAE: Up to 30.5% at 5.85GHz
- Integrated ESD Protection

Key Applications

- Wi-Fi IEEE 802.11ax/ac/n/a Systems
- Ultra-Wide Band (UWB) Systems
- Electronic Toll Collection (ETC) Systems
- UAV/Drones
- 5.8GHz Wireless Audio/Video
- Remote Control
- 5G Driver Amplifier
- Generic 5GHz Radio Designs

Functional Block and Package Information



3x3x0.75mm 16L QFN



BHWA555

Product Brief

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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.