

Wi-Fi Power Amplifier

Product Overview

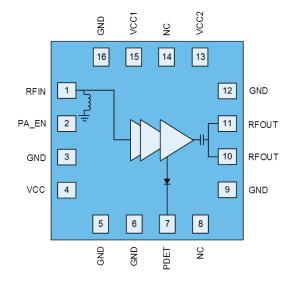
The Qorvo® QPA5219 is a three-stage power amplifier (PA) designed for Wi-Fi 5. The compact form factor and integrated matching minimizes layout area in the application.

Performance is focused on optimizing for power consumption while maintaining the highest linear output power and leading edge throughput that leads to greater ranges.

The design significantly minimizes external component needs leading to a simplified board implementation and more consistent performance at a system level over a variety of conditions

The QPA5219 integrates a 2.4 GHz power amplifier (PA), regulator and a power detector for improved accuracy.

Functional Block Diagram



Top View



16 Pin 3x3 mm Laminate Package

Key Features

- 2400-2500 MHz
- Pout = +24dBm MCS8/9 VHT20/40 -35dB Dynamic EVM
- Pout = +25dBm MCS7 HT20 -30dB Dynamic EVM
- Pout = +26dBm 802.11g -28dB Dynamic EVM
- POUT = +28.5dBm 802.11b @ Spectral Mask Compliance
- Optimized for +5 V Operation
- 32 dB Tx Gain
- Integrated DC Power Detector
- MCS11 and 3.3V Capable

Applications

- Access Points
- Wireless Routers
- Client Equipment
- Customer Premise Equipment
- Internet of Things

Ordering Information

| Part Number | Description | |
|-------------|----------------------------|--|
| QPA5219SB | Sample bag with 5 pieces | |
| QPA5219SR | 7" reel with 100 pieces | |
| QPA5219TR13 | 13" reel with 5000 pieces | |
| QPA5219EVB | Assembled Evaluation Board | |



Handling Precautions

| Parameter | Rating | Standard |
|----------------------------------|----------|-----------------------|
| ESD – Human Body Model (HBM) | Class 1C | ANSI/ESD/JEDEC JS-001 |
| ESD – Charged Device Model (CDM) | Class C3 | ANSI/ESD/JEDEC JS-002 |
| MSL – Moisture Sensitivity Level | Level 3 | IPC/JEDEC J-STD-020 |



Caution!

ESD sensitive device

Solderability

Compatible with both lead-free (260 °C max. reflow temperature) and tin/lead (245 °C max. reflow temperature) soldering processes.

Package lead plating: Electrolytic plated Au over Ni

RoHS Compliance

This part is compliant with the 2011/65/EU RoHS directive (Restrictions on the Use of Certain Hazardous Substances in Electrical and Electronic Equipment), as amended by Directive 2015/863/EU.

This product also has the following attributes:

- Lead free
- Halogen Free (Chlorine, Bromine)
- Antimony Free
- TBBP-A (C₁₅H₁₂Br₄O₂) Free
- SVHC Free



Contact Information

For the latest specifications, additional product information, worldwide sales and distribution locations:

Web: www.qorvo.com **Tel:** 1-844-890-8163

Email: customer.support@gorvo.com

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