

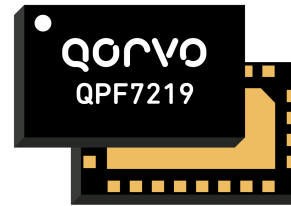
Product Overview

The Qorvo® QPF7219 is an integrated front end module (iFEM) designed for Wi-Fi 6 (802.11ax) systems which marries the advantages of active components with BAW filter technology. The compact form factor and integrated matching minimizes layout area in the application and greatly reduces the number of external components.

Performance is focused on optimizing the PA for a 5V supply voltage that conserves power consumption while maintaining the highest linear output power and leading edge throughput across all Wi-Fi channels 1 through 11 without need to reduce transmit power to meet the FCC regulatory limits. Receive path matches the optimal technologies to maximize Rx sensitivity through noise figure performance that is consistent over a wider variety of conditions.

The receive path is pinned out so external filtering can be added in the optimal position. Integrated die level filtering for 2nd and 3rd harmonics as well as 5 GHz rejection for DBDC operation are included.

The QPF7219 integrates a 2.4 GHz power amplifier (PA) with power detector, FCC bandedge BAW filter, regulator, transmit-receive switch (SP2T) and bypassable low noise amplifier (LNA) into a single device.

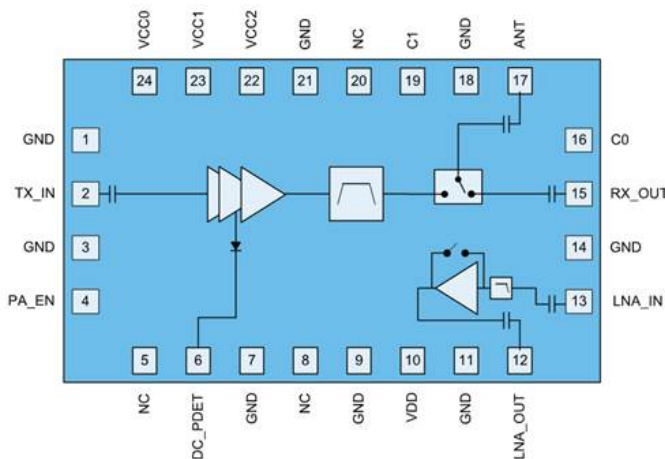


24 Pin 5x3 mm Laminate (LGA) Package

Key Features

- 2402-2472 MHz
- P_{OUT} = +25 dBm FCC Restricted Bandedge Compliance
- P_{OUT} = +20 dBm MCS11 HE40 -43 dB Dynamic EVM
- P_{OUT} = +22.5 dBm MCS9 VHT40 -35 dB Dynamic EVM
- P_{OUT} = +23.5 dBm MCS7 HT20/40 -30 dB Dynamic EVM
- P_{OUT} = +25 dBm MCS0 HT20 Spectral Mask Compliance
- Optimized for +5 V Operation
- 31 dB Tx Gain
- 2 dB Noise Figure
- 15.5 dB Rx Gain & 6.5 dB Bypass Loss

Functional Block Diagram



Top View

Applications

- Access Points
- Wireless Routers
- Residential Gateways
- WiFi Customer Premise Equipment
- Internet of Things

Ordering Information

Part Number	Description
QPF7219SB	Sample bag with 5 pieces
QPF7219SQ	Sample bag with 25 pieces
QPF7219SR	7" reel with 100 pieces
QPF7219TR13	13" reel with 2,500 pieces
QPF7219EVB-01	Assembled Evaluation Board

Handling Precautions

Parameter	Rating	Standard
ESD – Human Body Model (HBM)	Class 1C (1kV)	ANSI/ESD/JEDEC JS-001
ESD – Charged Device Model (CDM)	Class C3 (1kV)	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:

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Email: customer.support@qorvo.com

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