

QPF4519

Wi-Fi Front End Module

Product Overview

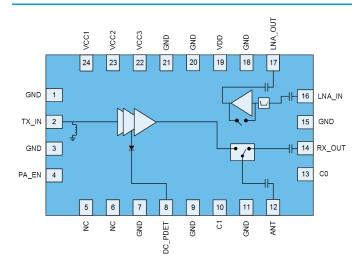
The Qorvo® QPF4519 is an integrated front end module (FEM) designed for Wi-Fi 802.11a/n/ac systems. The compact form factor and integrated matching minimizes layout area in the application.

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.

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 2.4 GHz rejection for DBDC operation are included

The QPF4519 integrates a 5 GHz power amplifier (PA), single pole two throw switch (SP2T) and bypassable low noise amplifier (LNA) into a single device

Functional Block Diagram



Top View



24 Pin 5x3 mm QFN Package

Key Features

- 5150-5925 MHz
- P_{OUT} = +23 dBm MCS9 VHT80 -35 dB Dynamic EVM
- P_{OUT} = +24.5 dBm MCS7 HT20/40 -30d B Dynamic EVM
- P_{OUT} = +25 dBm MCS0 HT20 Spectral Mask Compliance
- 160MHz Bandwidth and MCS11 Capable
- Optimized for +5 V Operation
- 32 dB Tx Gain
- 2 dB Noise Figure
- 16 dB Rx Gain & 6.5 dB Bypass Loss
- 25 dB 2.4 GHz Rejection on Rx Path

Applications

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

Ordering Information

Part Number	Description
QPF4519SB	Sample bag with 5 pieces
QPF4519SQ	Sample bag with 25 pieces
QPF4519SR	7" reel with 100 pieces
QPF4519TR13	13" reel with 2,500 pieces
QPF4519PCK401	Assembled Evaluation Board + 5 pcs



QPF4519 Wi-Fi Front End Module

Handling Precautions

Parameter	Rating	Standard
ESD – Human Body Model (HBM)	Class 1B (750V)	ANSI/ESD/JEDEC JS-001
ESD – Charged Device Model (CDM)	Class C2a (700V)	ANSI/ESD/JEDEC JS-002
MSL – Moisture Sensitivity Level	Level 2	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

Important Notice

The information contained herein is believed to be reliable; however, Qorvo makes no warranties regarding the information contained herein and assumes no responsibility or liability whatsoever for the use of the information contained herein. All information contained herein is subject to change without notice. Customers should obtain and verify the latest relevant information before placing orders for Qorvo products. The information contained herein or any use of such information does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other intellectual property rights, whether with regard to such information itself or anything described by such information. THIS INFORMATION DOES NOT CONSTITUTE A WARRANTY WITH RESPECT TO THE PRODUCTS DESCRIBED HEREIN, AND QORVO HEREBY DISCLAIMS ANY AND ALL WARRANTIES WITH RESPECT TO SUCH PRODUCTS WHETHER EXPRESS OR IMPLIED BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE OR OTHERWISE, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Without limiting the generality of the foregoing, Qorvo products are not warranted or authorized for use as critical components in medical, life-saving, or life-sustaining applications, or other applications where a failure would reasonably be expected to cause severe personal injury or death.

Copyright 2019 © Qorvo, Inc. | Qorvo is a registered trademark of Qorvo, Inc.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for RF Front End category:

Click to view products by Qorvo manufacturer:

Other Similar products are found below:

SE2622L-R BGM1032N7E6327XUSA1 LX5586LL SKY85703-11 LX5586HLL LX5586ALL SKY66111-21 SKY65728-11 SKY68000-31 SKY85308-11 SKY85302-11 SKY65724-11 ADTR1107ACCZ LMP91051MTX/NOPB SE5501L-R QPF4519SR SE5503A-R ADA8282WBCPZ ADRF5545ABCPZN ADRF5545ABCPZN-R7 AD8283WBCPZ AD8284WCSVZ ADRF5547BCPZN ADRF5547BCPZN ADRF5549BCPZN ADRF5549BCPZN-R7 HV7350K6-G SE5516A-R MCP2030-I/SL MAX2009ETI+ MAX2078CTK+ MAX2335ETI+ MAX2678GTB/V+T MD2131K7-G MD2134K7-G RFFM6903TR13 HV7351K6-G MCP2035-I/ST SE2614BT-R SE2438T-R SST12LF02-QXCE SST12LF09-Q3CE RFX2401C RFX2402E SKY85201-11 RFFM4591FTR7 RFFM8211TR7 RFFM4293TR7 RFFM4203TR7 RFFM5765QTR7