



Product Overview

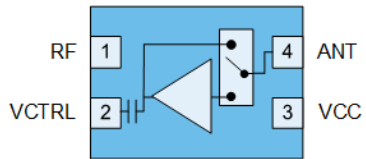
The Qorvo® RFFM8227P is an integrated front end module (FEM) compatible with Wi-Fi 6 and Bluetooth® systems. The ultra-small form factor and integrated matching minimizes layout area in the application.

Receive path matches the optimal technologies to maximize Rx sensitivity through noise figure performance that is consistent over a wider variety of conditions.

Integrated bypass switching allows an option for a low loss bi-directional path while not using the low noise amplifier that is capable to pass transmit traffic of Bluetooth®.

The RFFM8227P integrates a 2.4GHz low noise amplifier (LNA) and bypass switch into a single device.

Functional Block Diagram



Top View

RFFM8227P

Wi-Fi Front End Module



4 Pin 1.4x1mm DFN Package

Key Features

- 2412-2484MHz
- 14dB Rx Gain
- 1.6dB Noise Figure
- 1dB Bypass Path Insertion Loss

Applications

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

Ordering Information

Part Number	Description
RFFM8227PSB	Sample bag with 5 pieces
RFFM8227PSR	7" reel with 100 pieces
RFFM8227PTR7	7" reel with 2,500 pieces
RFFM8227PPCK-410	Assembled Evaluation Board Kit

Handling Precautions

Parameter	Rating	Standard
ESD – Human Body Model (HBM)	Class 1C (1000V)	JESD22-A114
ESD – Charged Device Model (CDM)	Class IV (1000V)	JESD22-C101
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: NiPdAu

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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