



QPQ5600

Wi-Fi U-NII 5 bandBoost Filter

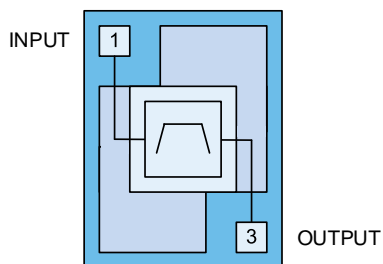
Product Overview

The Qorvo® QPQ5600 is an high-performance, high power, Bulk Acoustic Wave (BAW) band-pass filter with extremely steep skirts, simultaneously exhibiting low loss in the Wi-Fi UNII 5 band and high near-in rejection in the UNII 1-3 band.

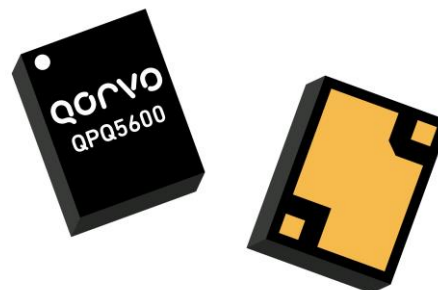
The filter module is specifically designed to enable industry leading capacity performance in Wi-Fi applications that result in higher power capability in more Wi-Fi channels than systems with no or traditional filter solutions. End users will see a better capability to deliver features that take advantage of sub-banding the 6GHz from 5GHz Wi-Fi spectrum in use cases such as tri-radio Wi-Fi mesh applications.

Using common module packaging techniques to achieve the industry standard footprint while negating as many external passive placements to help end users ease of integration into their circuits.

Functional Block Diagram



Top View



3 Pad 1.3 x 1.7 mm Laminate Package

Key Features

- 5945-6425 MHz
- Low Insertion Loss in Wi-Fi UNII 5 band
- High Rejection in Wi-Fi UNII 1-3 bands
- Extended temperature performance from -20 to +95 °C
- High power handling to +28dBm averaged Input Power
- Integrated match

Applications

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

Ordering Information

| Part Number | Description |
|-------------|-----------------------------|
| QPQ5600SB | Sample bag with 5 pieces |
| QPQ5600SR | 7" reel with 100 pieces |
| QPQ5600TR13 | 13" reel with 10,000 pieces |
| QPQ5600EVB | Assembled Evaluation Board |



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Handling Precautions

| Parameter | Rating | Standard |
|----------------------------------|-------------------|-----------------------|
| ESD – Human Body Model (HBM) | Class 1C (1,000V) | ANSI/ESD/JEDEC JS-001 |
| ESD – Charged Device Model (CDM) | Class 3C (1,000V) | ANSI/ESD/JEDEC JS-002 |
| MSL – Moisture Sensitivity Level | MSL 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: Electroless Ni/Electroless Pd/Immersion Au (ENEPIG)

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:

- Leadfree
- 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@qorvo.com

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