



# QPQ5601

## Wi-Fi U-NII 5-8 bandBoost Filter

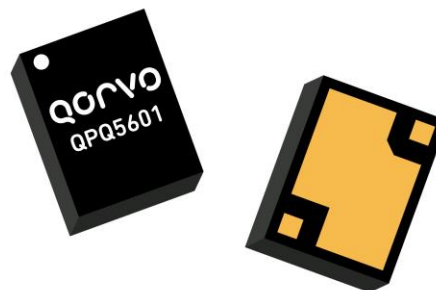
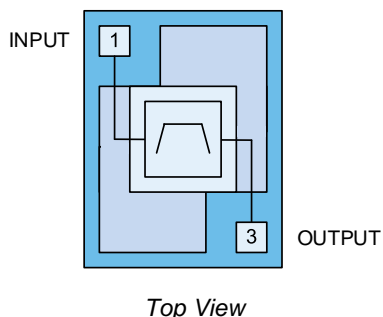
### Product Overview

The Qorvo® QPQ5601 is a high-performance, high power, Bulk Acoustic Wave (BAW) band-pass filter with extremely steep skirts, simultaneously exhibiting low loss in the Wi-Fi UNII 5-8 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



3 Pad 1.3 x 1.7 mm Laminate Package

### Key Features

- 5945-7125 MHz
- Low Insertion Loss in Wi-Fi UNII 5-8 bands
- 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                 |
|-------------|-----------------------------|
| QPQ5601SB   | Sample bag with 5 pieces    |
| QPQ5601SR   | 7" reel with 100 pieces     |
| QPQ5601TR13 | 13" reel with 10,000 pieces |
| QPQ5601EVB  | Assembled Evaluation Board  |



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### Handling Precautions

| Parameter                        | Rating | Standard              |
|----------------------------------|--------|-----------------------|
| ESD – Human Body Model (HBM)     | TBD    | ANSI/ESD/JEDEC JS-001 |
| ESD – Charged Device Model (CDM) | TBD    | ANSI/ESD/JEDEC JS-002 |
| MSL – Moisture Sensitivity Level | TBD    | 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 (C<sub>15</sub>H<sub>12</sub>Br<sub>4</sub>O<sub>2</sub>) Free
- SVHC Free

### Contact Information

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

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