

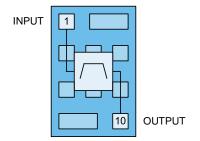
#### **Product Overview**

The Qorvo® QPQ5500 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 1-3 band and high near-in rejection in the UNII5-8 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 5GHz from 6GHz Wi-Fi spectrum in use cases such as triradio 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

# QPQ5500 Wi-Fi U-NII 1-3 bandBoost Filter



10 Pad 1.1 x 1.7 mm Laminate Package

# **Key Features**

- 5170-5835 MHz
- · Low Insertion Loss in Wi-Fi UNII 1-3 bands
- High Rejection in Wi-Fi UNII 5-8 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	
QPQ5500SB	Sample bag with 5 pieces	
QPQ5500SR	7" reel with 100 pieces	
QPQ5500TR13	13" reel with 10,000 pieces	
QPQ5500EVB	Assembled Evaluation Board	



#### QPQ5500 Wi-Fi U-NII 1-3 bandBoost Filter

#### **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 (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:

**Web:** www.qorvo.com **Tel:** 1-844-890-8163

Email: customer.support@qorvo.com

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