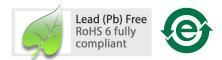
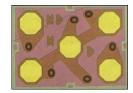
# **ACPF-7324**

Wi-Fi Bandpass Filter (2402.5 – 2481.5 MHz)



# **Product Brief**





## **Description**

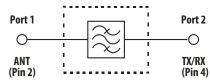
The Avago ACPF-7324 is a chip scale bandpass filter designed for use in mobile Wi-Fi Band applications (2402.5 – 2481.5 MHz), which require high attenuation of adjacent spectrum (e.g., LTE Bands 7, 38, 40, and 41) to meet coexistence requirements.

The ACPF-7324 is designed with Avago Technologies' innovative Film Bulk Acoustic Resonator (FBAR) technology, which makes possible ultra-small, high-Q filters at a fraction of their usual size.

The ACPF-7324 also utilizes Avago Technologies' advanced Microcap bonded-wafer technology. This chip scale miniaturization process results in a package size of only  $0.66 \times 0.92$  mm and maximum height of 0.25 mm, making the ACPF-7324 smaller than a 0402 size SMT component.

The ACPF-7324 is compatible with high volume, lead-free SMT soldering processes, and can be direct surface -mounted to a PCB or a transfer molded module.

## **Functional Block Diagram**



#### **Features**

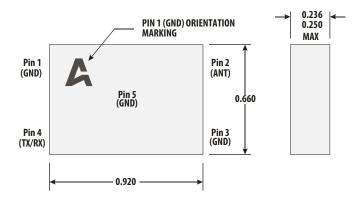
- 50 Ω Input/Output
- No external matching required
- Low Insertion Loss
- Hi Rejection: Enables concurrent operation with other 2.5 GHz Bands
- Miniature Size
  - 0.66 × 0.92 mm Footprint
  - 0.25 mm Max Height
- High Power Rating: +27 dBm Abs Max Input Power
- Environmental
  - RoHS 6 Compliant
  - Halogen free
  - TBBPA Free

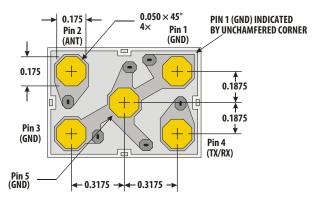
#### **Specifications**

- Operating temperature: -30 °C to +85 °C
- Insertion Loss: 1.7 dB typical
- Interferer Rejection: 52 dB typical

## **Applications**

Wi-Fi enabled mobile communications devices operating concurrently with other wireless standards





TOP VIEW SIDE VIEW

Notes:

1. Dimensions in millimeters

 Tolerance (unless otherwise noted): X.XXX ± TBD X.XXXX ± TBD

- 3. Dimensions nominal unless otherwise noted
- 4. Contact areas are gold plated
- 5. Package marking:
  "A" = Avago logo and Pin 1 (GND) orientation

**BOTTOM VIEW** 

Pin Connections: 1, 3, 5 GND 2 ANT, Port 1

4 TX/RX, Port 2

## **Ordering Information**

Part Number	No. of Devices	Container
ACPF-7324-BLK	100	Tape strip or Gel-Pack
ACPF-7324-TR1	3000	7-inch (178 mm) Reel