

ACPF-7324

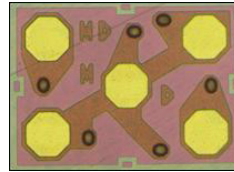
Wi-Fi Bandpass Filter (2402.5 – 2481.5 MHz)



Product Brief



Lead (Pb) Free
RoHS 6 fully
compliant



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 0.66×0.92 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.

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

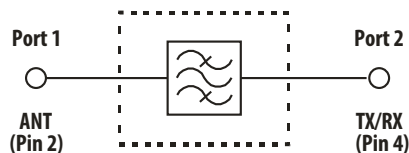
Specifications

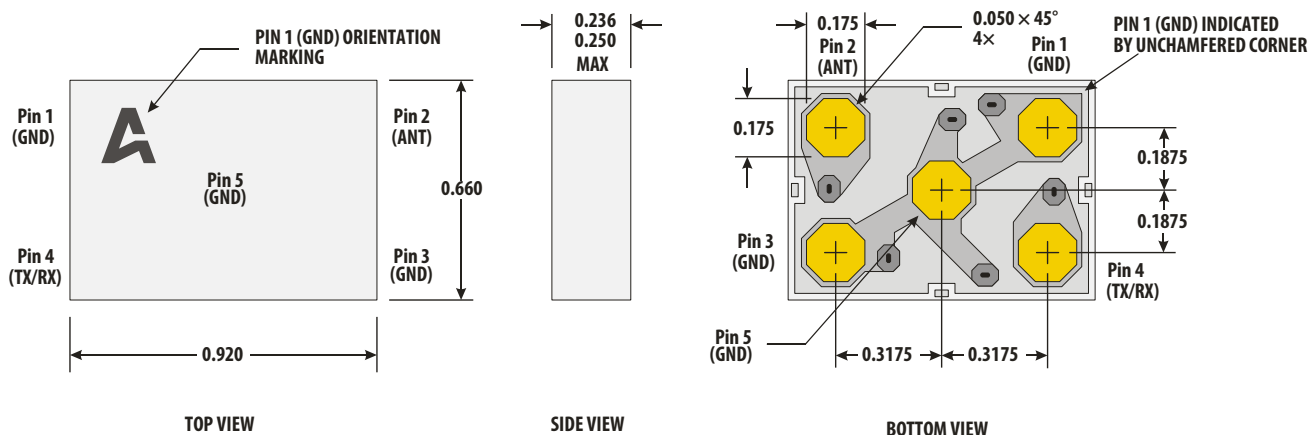
- Operating temperature: -30°C to $+85^{\circ}\text{C}$
- Insertion Loss: 1.7 dB typical
- Interferer Rejection: 52 dB typical

Applications

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

Functional Block Diagram





Notes:

1. Dimensions in millimeters
2. 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

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 |

For product information and a complete list of distributors, please go to our web site: www.avagotech.com

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