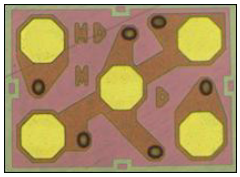
ACPF-7324

Wi-Fi Bandpass Filter (2402.5 – 2481.5 MHz)

Product Brief

Lead (Pb) Free
RoHS 6 fully
compliant



Description

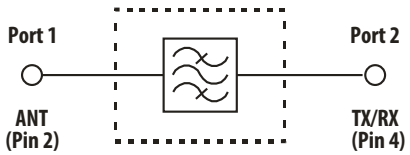
The Avago ACPF-7324 is a chip scale bandpass filter designed for use in mobile Wi-Fi Band applications (2402.5 – 2481.5 MHz), which require high attenuation of adjacent spectrum (e.g., LTE Bands 7, 38, 40, and 41) to meet coexistence requirements.

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.

Functional Block Diagram



Features

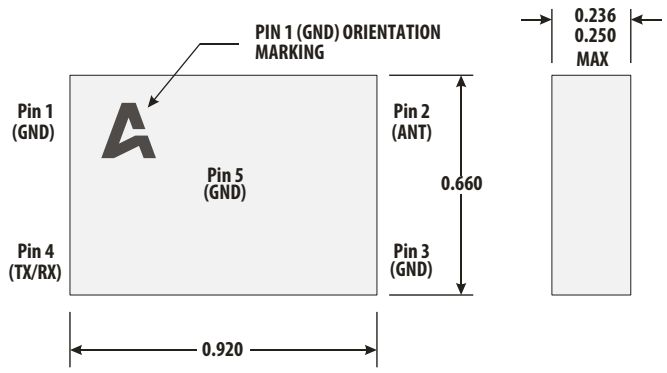
- 50 Ω Input/Output
- No external matching required
- Low Insertion Loss
- Hi Rejection: Enables concurrent operation with other 2.5 GHz Bands
- Miniature Size
  - 0.66 × 0.92 mm Footprint
  - 0.25 mm Max Height
- High Power Rating: +27 dBm Abs Max Input Power
- Environmental
  - RoHS 6 Compliant
  -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

Specifications

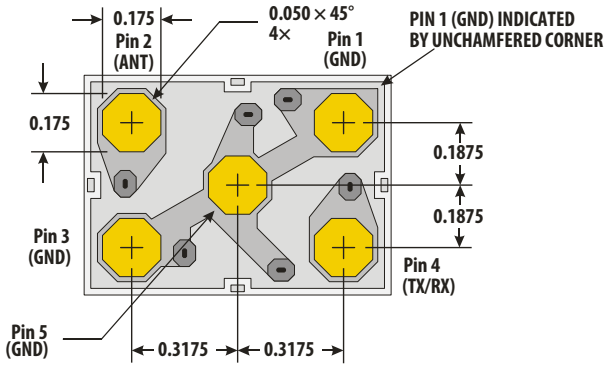
- Operating temperature: –30 °C to +85 °C
- Insertion Loss: 1.7 dB typical
- Interferer Rejection: 52 dB typical

Applications

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



TOP VIEW SIDE VIEW



BOTTOM VIEW

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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