

# ACPF-7424

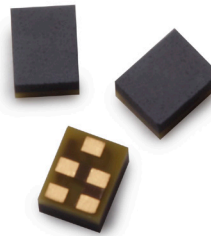
Wi-Fi/ISM Bandpass Filter (2401 – 2482 MHz)



## Data Sheet



Lead (Pb) Free  
RoHS 6 fully  
compliant



### Description

The Avago ACPF-7424 is a miniaturized Bandpass Filter designed for use in the 2.4 GHz Wi-Fi/ISM bands.

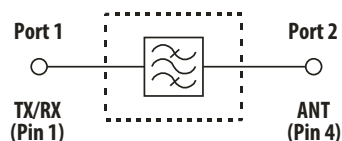
The ACPF-7424 is designed to enable concurrent operation of Wi-Fi/ISM applications and other wireless standards, such as 2.5 GHz WiMAX, PCS, and 3GPP Bands 7, 38, 40, without performance degradations due to interference.

The ACPF-7424 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-7424 also utilizes Avago Technologies' advanced Microcap bonded-wafer technology. This chip scale miniaturization process results in a package size of only 1.4 × 1.1 mm and maximum height of 0.80 mm.

The ACPF-7424 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  $\Omega$  Input/Output
- No external matching required
- Low Insertion Loss, High Interference Rejection
- Subminiature Size
  - 1.1 × 1.4 mm Footprint
  - 0.80 mm Max. Height
- High Power Rating
  - +27 dBm Abs. Max. Input Power
- Environmental
  - RoHS 6 compliant
  - Halogen-free
  - TBBPA-free

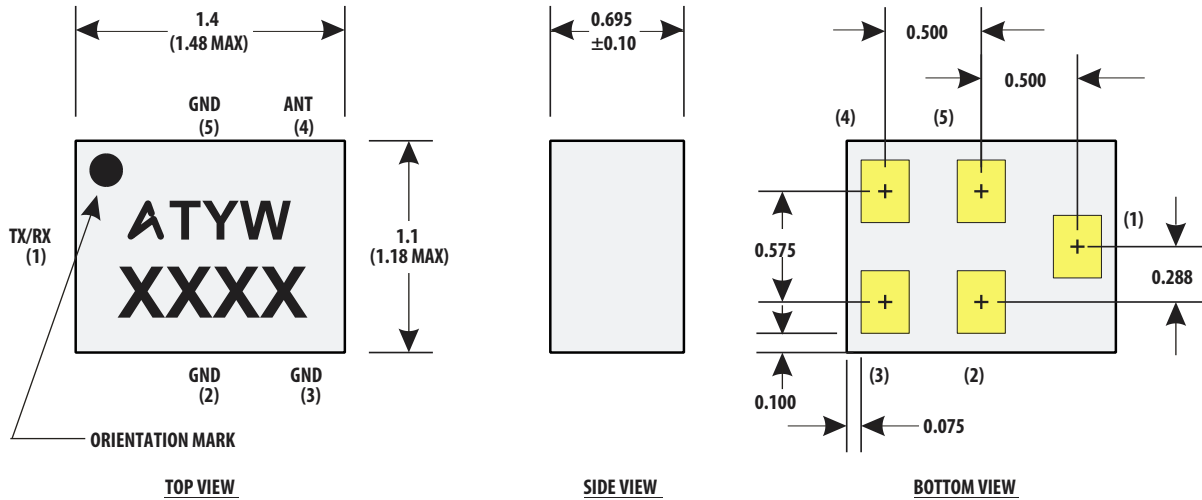
### Specifications

- Performance guaranteed – 30 °C to +85 °C
- Low Insertion Loss
  - Wi-Fi Channels 1– 13: 0.9 dB Typ.

### Applications

Wi-Fi, 802.11 b/g/n, WLAN, Bluetooth functionality in handsets, mobile and portable communications devices.

## Package Outline Drawing and Marking

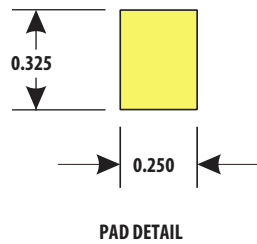


### Notes:

1. Dimensions in millimeters
2. Tolerance, unless otherwise noted:  
X.XX ± 0.05  
X.XXX ± 0.025
3. Dimensions nominal, unless otherwise noted
4. Contact areas are gold-plated
5. Package marking:  
"A" = Avago logo  
T = ACPF-7424  
Y = Year (last digit)  
W = Work Week (See Appendix A)  
XXXX = Lot number

### Pin Connections:

- |         |                |
|---------|----------------|
| 1       | Port 1 (TX/RX) |
| 2, 3, 5 | GND            |
| 4       | Port 2 (ANT)   |



## Ordering Information

Part Number	No. of Devices	Container
ACPF-7424-BLK	100	Tape strip or Gel-Pack
ACPF-7424-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](http://www.avagotech.com)

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AV02-4444EN - February 19, 2014

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