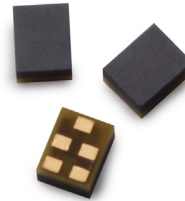


## ACPF-7224

ISM Bandpass Filter (2401 – 2483 MHz)  
for Coexistence with Bands 40/38



## Product Brief



### Description

The Avago ACPF-7224 is a miniaturized Bandpass Filter designed for use in the 2.4 GHz Industrial, Scientific and Medical (ISM) band.

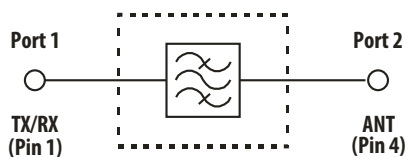
The ACPF-7224 is designed to enable concurrent operation of Wireless LAN and Bluetooth applications which coexist with LTE Bands 40 and 38 as well as other wireless standards, such as 2.5 GHz WiMAX and PCS without performance degradations due to interference.

The ACPF-7224 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-7224 also utilizes Avago Technologies' advanced Microcap bonded-wafer technology. This chip scale miniaturization process results in a package size of only 1.4 x 1.1 mm and maximum height of 0.80 mm.

The ACPF-7224 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
  - Enables concurrent use of other 2.5 GHz Bands
- Subminiature Size
  - 1.4 x 1.1 mm Footprint
  - 0.80 mm Max Height
- High Power Rating
  - +27 dBm Abs Max Input Power
- Environmental
  - RoHS 6 Compliant
  - Halogen free
  - TBBPA Free

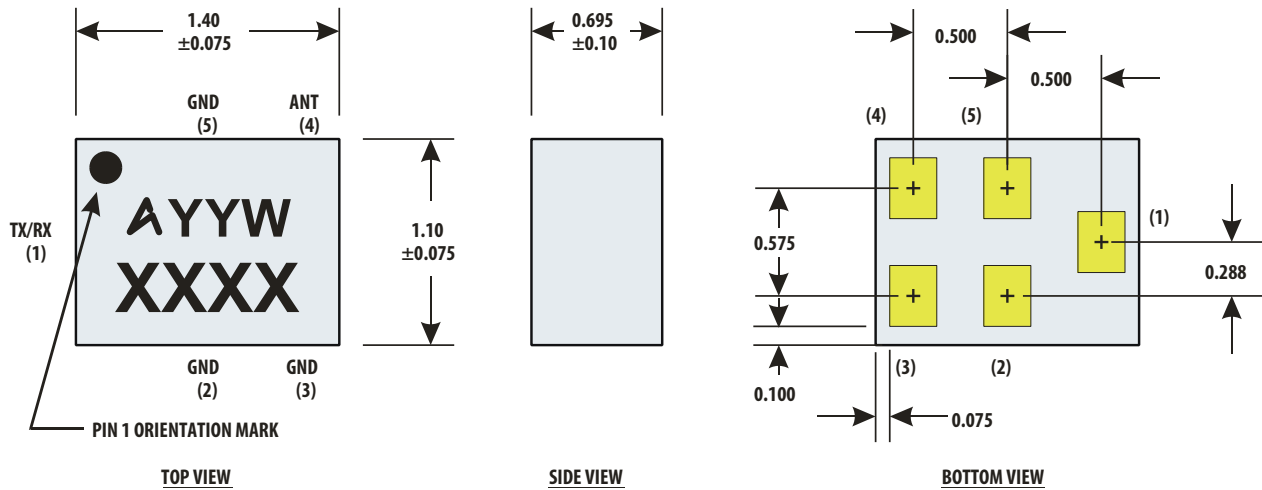
### Specifications

- Performance guaranteed -30 °C to +85 °C
- Low Insertion Loss
- High Interferer Rejection

### Applications

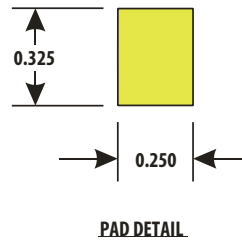
802.11 b/g/n WLAN or Bluetooth datacom in handsets, mobile and portable communications devices.

## Package Outline Drawing and Marking



### Notes:

1. Dimensions in millimeters
2. Tolerance, unless otherwise noted:  
X.XX  $\pm 0.05$   
X.XXX  $\pm 0.025$
3. Dimensions nominal unless otherwise noted
4. Contact areas are gold plated
5. Package marking:  
a = Avago logo  
Y = ACPF-7224  
Y = Year (last digit)  
W = Work Week  
X = 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-7224-BLK	100	Tape strip or Gel-Pack
ACPF-7224-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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