

# ACPF-7124

## ISM Bandpass Filter (2401 – 2482 MHz)

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### Product Brief



#### Description

The Avago ACPF-7124 is a miniaturized Bandpass Filter designed for use in the 2.4 GHz Industrial, Scientific and Medical (ISM) band.

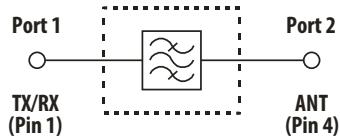
The ACPF-7124 is designed to enable concurrent operation of Wireless LAN and Bluetooth applications that coexist with other wireless standards, such as 2.5 GHz WiMAX, PCS, and LTE Bands 7 and 40, without performance degradations due to interference.

The ACPF-7124 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-7124 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-7124 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, High Interference Rejection
  - Enables concurrent use of other 2.5 GHz Bands
- Subminiature Size
  - 1.1 x 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
- High Interferer Rejection

#### Applications

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

## Package Dimension

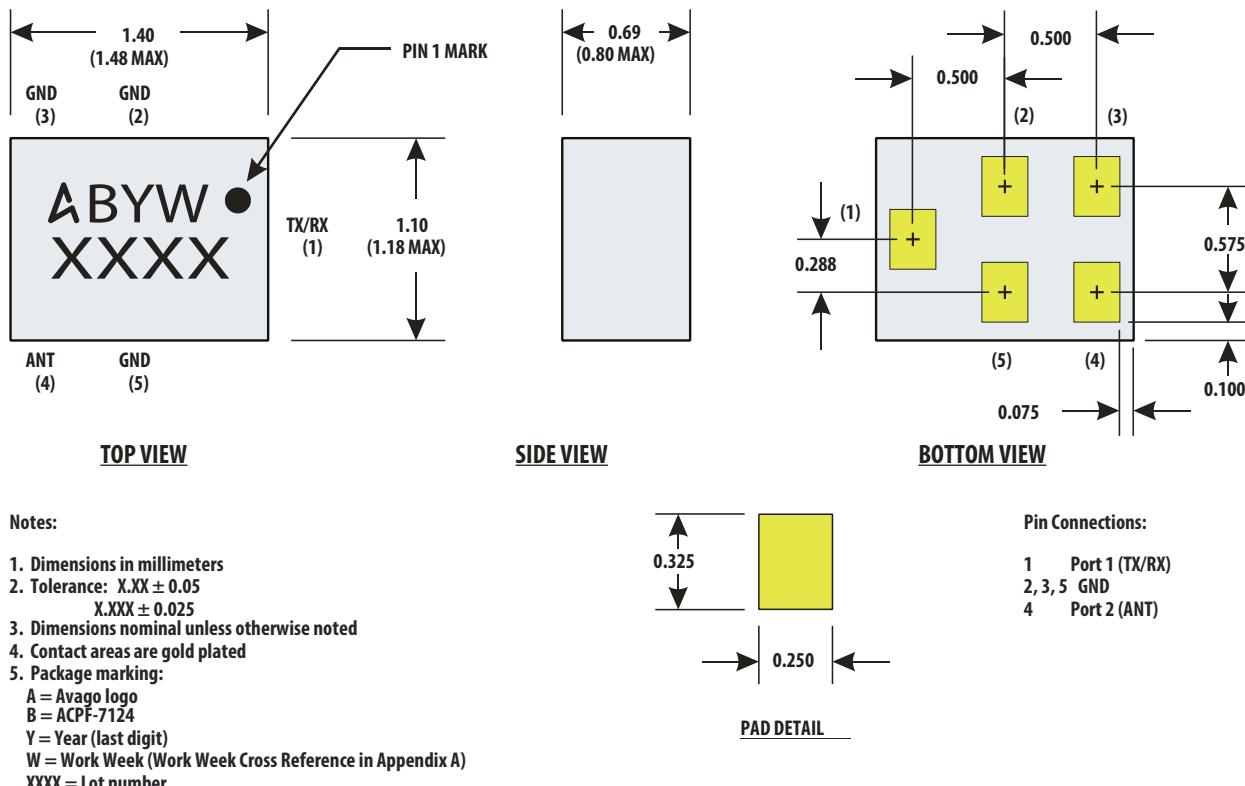


Figure 1. Package Outline Drawing and Marking

## Ordering Information

Part Number	No. of Devices	Container
ACPF-7124-BLK	100	Tape strip or Gel-Pack
ACPF-7124-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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