

ACPF-7124

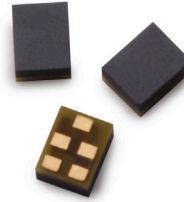
ISM Bandpass Filter (2401 – 2482 MHz)



Product Brief



Lead (Pb) Free
RoHS 6 fully
compliant



Description

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

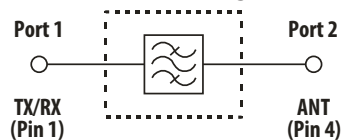
The ACPF-7124 is designed to enable concurrent operation of Wireless LAN and Bluetooth applications that coexist with other wireless standards, such as 2.5 GHz WiMAX, PCS, and LTE Bands 7 and 40, without performance degradations due to interference.

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

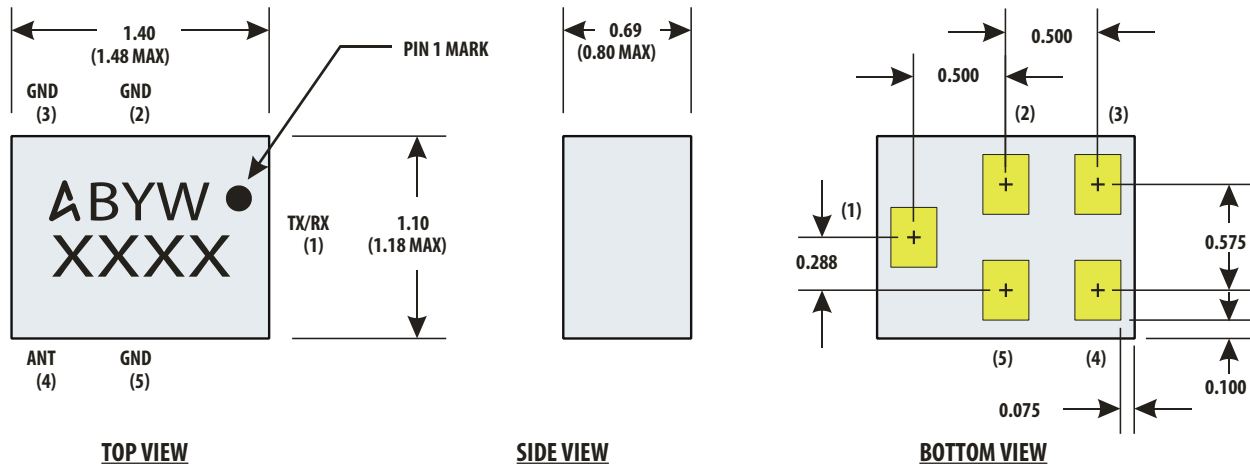
Specifications

- Performance guaranteed -30°C to $+85^{\circ}\text{C}$
- 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



Notes:

1. Dimensions in millimeters
2. Tolerance: 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
B = ACPF-7124
Y = Year (last digit)
W = Work Week (Work Week Cross Reference in Appendix A)
XXXX = Lot number

Pin Connections:

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

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

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