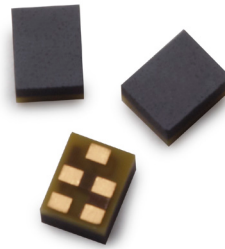


ACPF-8025

Band 25 Rx Filter (1930 – 1995 MHz)



Product Brief



Description

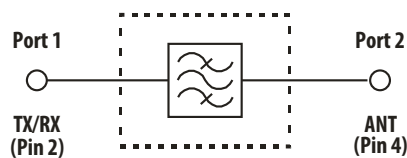
The Avago ACPF-8025 is a miniature bandpass filter designed for use as a Rx diversity filter in LTE Band 25 applications such as smartphones, tablets, and mobile/portable communication devices.

The ACPF-8025 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-8025 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-8025 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
- Miniature Size
 - 1.4 × 1.1 mm Footprint
 - 0.80 mm Max Height
- High Power Rating: +15 dBm Abs Max Input Power
- Environmental
 - RoHS 6 Compliant
 - Halogen free
 - TBBPA Free

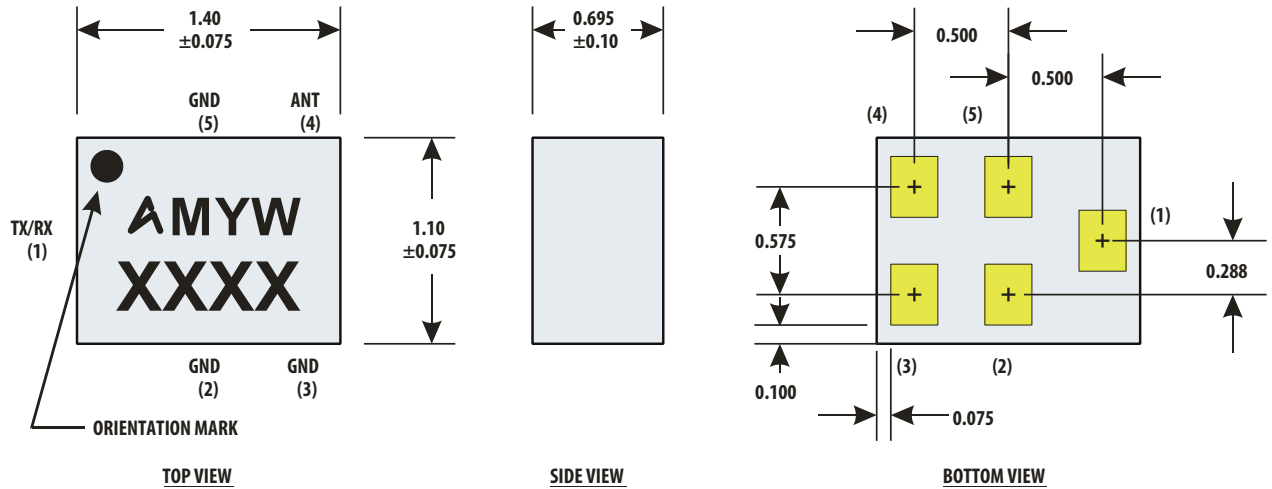
Specifications

- Operating temperature: -30 °C to +85 °C
- Low Insertion Loss: 1.2 dB Typ
- High Tx Band Interferer Rejection: 37 dB Min

Applications

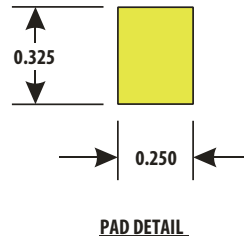
Band 25 LTE applications such as smartphones, tablets, and mobile/portable communication devices

Package Outline



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
M = ACPF-8x25
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) |

Figure 1. Package Outline Drawing and Marking

Ordering Information

Part Number	No. of Devices	Container
ACPF-8025-BLK	100	Tape strip or Gel-Pack
ACPF-8025-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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