

ACPF-7041

TD-LTE Band 41 Bandpass Filter



Product Brief



Description

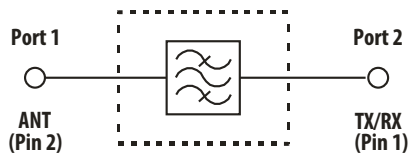
The Avago ACPF-7041 is a miniature bandpass filter designed for use in 3GPP TD-LTE Band 41 (2496 – 2690 MHz) wireless applications.

The ACPF-7041 is designed to enable concurrent operation of Band 41 with applications in adjacent ISM 2.4 GHz Band (WLAN, Bluetooth).

The ACPF-7041 utilizes 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-7041 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
 - 2.0 \times 2.0 mm Footprint
 - 0.90 mm Max Height
- High Power Rating: +29 dBm Abs Max Input Power
- Environmental
 - RoHS 6 Compliant
 - Halogen free
 - TBBPA Free

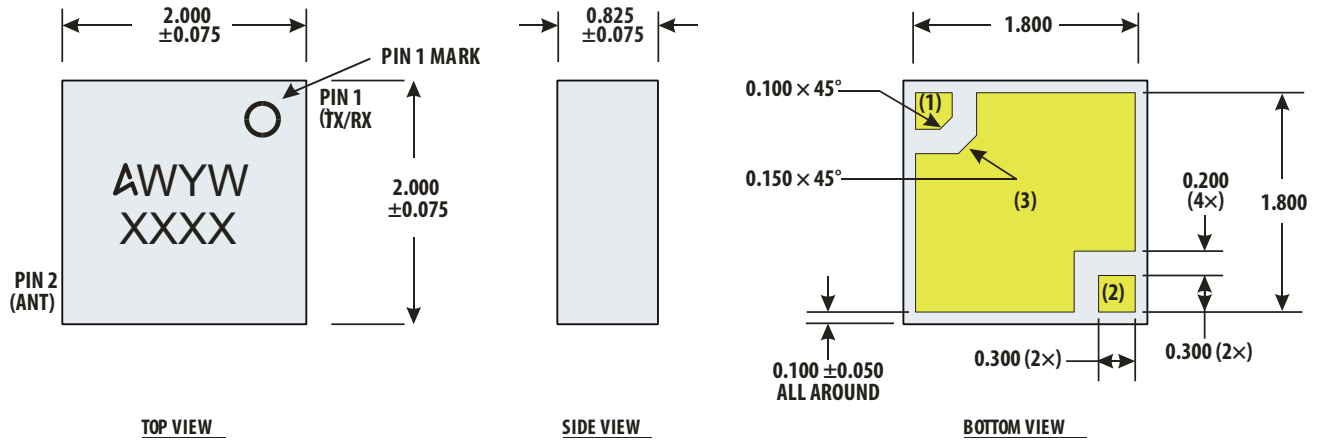
Specifications (Typ, 25 °C)

- Band 41 Insertion Loss \leq 2.3 dB
- IEEE 802.11 b/g/n Rejection \geq 45 dB

Applications

3GPP TD-LTE Band 41 applications in smartphones, tablets, and mobile/portable communication devices

Package Outline



Notes:

1. Dimensions in millimeters
2. Dimensions (nominal unless otherwise noted):
3. Tolerance (unless otherwise noted):
 $X.XX \pm 0.05$ mm
 $X.XXX \pm 0.025$ mm
4. Angles 45° nominal
5. Contact areas are gold plated
6. Package marking:
 "A" = Avago Technologies
 W = Part Number (ACPF-7041)
 Y = Year
 W = Work Week
 XXXX = Assembly Lot Number

Pin Connections:

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

Figure 1. Package Outline Drawing and Marking

Ordering Information

Part Number	No. of Devices	Container
ACPF-7041-BLK	100	Tape strip or Gel-Pack
ACPF-7041-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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