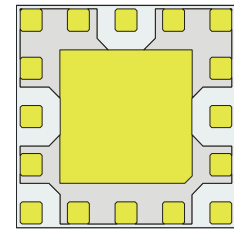


ACFM-7210

Band Class 1/Band Class 0 Quadplexer

Product Brief



Description

The Avago Technologies' ACFM-7210 is a quadplexer that combines Band Class 1 and Band Class 0 duplexers into a single, miniature package.

The ACFM-7210 features a single antenna connection, which eliminates the need for antenna switching. All ports are matched to 50 ohms.

The ACFM-7210 is designed with Avago Technologies' film bulk acoustic resonator (FBAR) technology. The ACFM-7210 also uses Avago Technologies' innovative microcap bonded-wafer, chip scale packaging technology. This process allows the filters to be assembled in a module with a footprint of only 3 mm × 3 mm with a maximum height of 1.05 mm.

Low Tx insertion loss of the ACFM-7210 reduces power amplifier current, which extends battery life. The ACFM-7210 enhances receiver sensitivity and dynamic range with low Rx insertion loss and high rejection of Tx signals at the Rx ports.

The excellent power handling capability of Avago Technologies' FBAR bulk-mode resonators supports the high Tx output power levels needed for mobile communications devices while adding virtually no distortion.

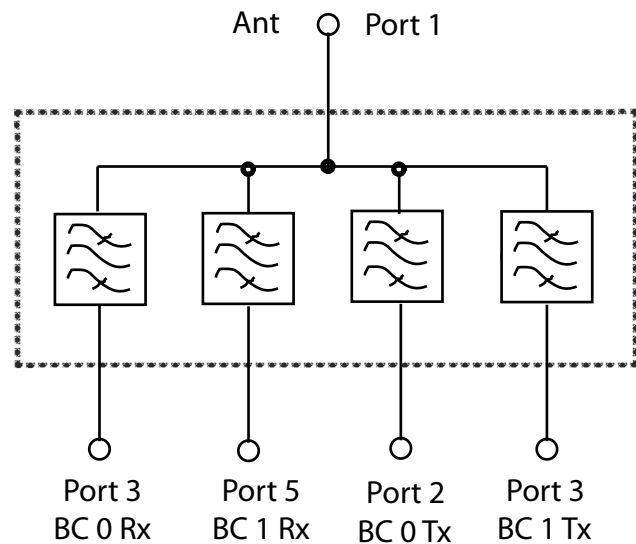
Features

- Single antenna
- All ports matched to 50 ohms
- Miniature size
 - 3 mm × 3 mm footprint
 - 1.05 mm maximum height
- High power rating
 - +31 dBm maximum Tx power
- Environmental
 - RoHS 6 compliant
 - Halogen free
 - TBBPA free

Applications

Smartphones, tablets, and mobile/portable communications devices operating in Band Classes 1 and 0.

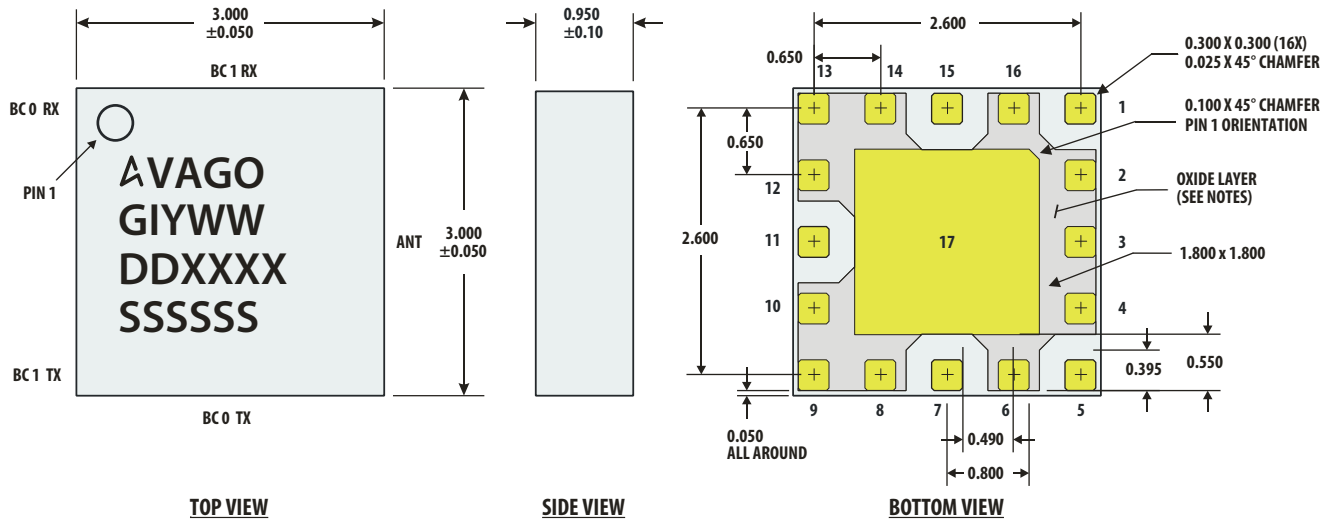
Functional Block Diagram



Ordering Information

Part Number	Number of Devices	Container
ACFM-7210-BLK	100	Tape strip or gel-pack
ACFM-7210-TR1	3000	178 mm (7-inch) reel

Package Dimensions and Marking Specification



Notes:

1. Dimensions in millimeters
2. Tolerance, unless otherwise noted:
 $X.XX \pm 0.05$ mm
 $X.XXX \pm 0.025$ mm
3. Dimensions nominal unless otherwise noted
4. Angles 45° nominal
5. Contact areas are gold plated
6. Ground pads on bottom metal are defined by a thin ($< 1\mu\text{m}$) oxide layer which acts as a solder stop

Package Marking Code:
AVAGO = Avago Technologies, Inc.
G = ACFM-7210
I = Assembly Information
Y = Year
WW = Work Week
DD = Date Code
XXXX = Assembly Lot
SSSSS = Production Information

Pin Description

Pin	Connection
1	Band Class 0 Rx
5	Band Class 1 Tx
7	Band Class 0 Tx
11	Antenna
15	Band Class 1 Rx
2, 3, 4, 6, 8, 9, 10, 12, 13, 14, 16, 17	GND

For product information and a complete list of distributors, please go to our web site:

www.avagotech.com

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