Avago Technologies' ACMD-6007 is Industry's First 4G/LTE Band 7 Duplexer

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FBAR Technology Delivers Improved Service Quality and Battery Life

SAN JOSE, Calif. & SINGAPORE, Aug 10, 2010 (BUSINESS WIRE) -- Avago Technologies (Nasdaq:AVGO), a leading supplier of analog interface components for communications, industrial and consumer applications, today announced the industry's first 4G/LTE Band 7 duplexer[1] to its growing line of high isolation, 2 x 2.5 mm Film Bulk Acoustic Resonator (FBAR) duplexers for mobile handsets and data terminals. This FBAR duplexer will allow manufacturers to build handsets for the emerging 4G/LTE standard that are optimized for quality of voice service and battery life.

The ACMD-6007's low 2.1 dB maximum insertion loss in the transmit channel minimizes current drain from the power amplifier and therefore extends handset battery life and talk time. The very low 2.5 dB receive channel insertion loss improves receiver sensitivity and dynamic range for better signal quality and an improved user experience.

Handset receiver sensitivity and dynamic range is improved by the ACMD-6007 as it attenuates the transmit channel by 50 dB minimum in the receive channel, reducing transmit-generated noise in the receive band. This eliminates the need for interstage filters, making the handset less costly and freeing space that can be used for additional features.

The miniature ACMD-6007 is designed for LTE Band 7 (2500-2570 MHz uplink, 2620-2690 MHz downlink). Avago's proprietary FBAR filter and patented Microcap wafer level silicon packaging technology produces an air mounted resonator with very high Q for sharp, low-loss filtering. The excellent 33 dBm transmit power handling capability of the ACMD-6007 supports the high output power levels used in mobile communications applications while adding virtually no distortion. Avago's bulk filter structure is much better at handling the transmit power levels found in handsets than SAW (surface acoustic wave) technology based filters, especially in the higher frequency bands.

ACMD-6007 Key Features

- Receive band performance (2620 - 2690 MHz, -20 to 85° C)
  - Low insertion loss: 2.5 dB maximum
  - Receive noise blanking: 50 dB minimum
- Transmit band performance (2500 - 2570 MHz, -20 to 85° C)
  - Low insertion loss: 2.1 dB maximum
  - Transmit interferer blocking: 55 dB minimum
- High maximum transmit power: 33 dBm
- High transmit port to receive port isolation(-20 to 85° C))
  - 50 dB minimum in receive band over temperature
  - 55 dB minimum in transmit band over temperature
- FBAR filter technology for ultra-small, high-Q filters
- Compatible with standard 2.0 x 2.5 mm duplexer PCB footprints
- RoHS 6 compliant, Halogen free, TBBPA (Tetrabromobisphenol A) free

Packaging

The ACMD-6007 is available in a RoHS 6 compliant, advanced Microcap bonded-wafer chip-scale package measuring 2.0 x 2.5 mm. Height is 0.95 mm maximum. The ACMD-6007 is compatible with standard 2.0 x 2.5 mm duplexer PCB footprints.

U.S. Pricing and Availability

Avago's ACMD-6007 LTE band 7 duplexer is priced at $1.99 each in 10,000 piece quantities. Samples and production quantities are available now through Avago's direct sales channel and worldwide distribution partners.

Additional information about Avago's wireless can be found at http://www.avagotechwireless.com.

About Avago Technologies

Avago Technologies is a leading supplier of analog interface components for communications, industrial and consumer applications. By leveraging its core competencies in III-V compound and silicon semiconductor design and processing, the company provides an extensive range of analog, mixed signal and optoelectronics components and subsystems to approximately 40,000 end customers. Backed by strong customer service support, the company's products serve four diverse end markets: wireless communications, wired infrastructure, industrial and automotive electronics, and consumer and computing peripherals. Avago has a global employee presence and heritage of technical innovation dating back nearly 50 years to its

Hewlett-Packard roots. Information about Avago is available on the Web at http://www.avagotech.com

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Note

1.A duplexer uses sharply tuned filters to isolate a transmitter from a receiver. This allows both to operate on the same antenna at the same time.

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