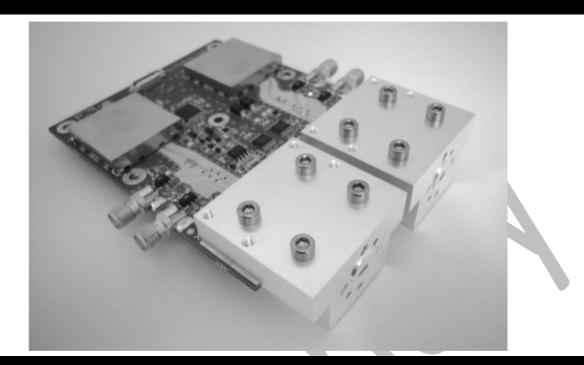
FC1003E/03 81-86 GHz TX, 71-76/81-86 GHz RX Converter





General

This converter platform is a broadband and versatile building block for E-band (71-76 and 81-6 GHz) applications. The platform is easily modified to customer requirements. It consists of one up- and one down-converter in a single unit. The up- and down-converter operate independently, and can thus be used in both frequency multiplexed and time multiplexed applications. The FC1003E/03 utilizes on-board LO synthesizers. Waveguide filters and diplexers are available as options.

Features

- 81-86 GHz TX frequency, 71-76 GHz and 81-86 GHz RX frequency allows for TDD or FDD operation
- Platform concept, easy to customize
- 0 to 10 GHz IF bandwidth
- Small size and weight
- Standard waveguide and SMA interfaces

The basic E-band platform possesses a very broad IF bandwidth, from 0 to 10.0 GHz. A set of two identical E-band modules can be used in a full duplex configuration by appropriate choice of LO signals for the up- and down-converter respectively Even higher capacity can be achieved by pairing a 71-76 GHz and a 81-86 GHz TX unit togehter. The converter is controlled through a standard I2C interface.

Applications

- Point-to-point or multi-point radio
- Multi-Gbps wireless transfer
- Measurement systems
- Any application requiring a high-quality mm-wave signal source

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Interfaces

