Product catalog

Frequency Converters

RF frequency converters move a signal between specified RF and IF bands using a local oscillator and mixing stages. The frequency plan must separate the wanted output from images, LO leakage and mixing spurs.



Products: 3

Revision: 2 · Revision date: 2026-11-11



LCMIXD-10700-12750

10.7–12.75 GHz Dual-Channel RF Downconverter Module

Dual-channel RF downconverter with 10.7–12.75 GHz inputs, 1.7–3.75 GHz IF outputs, 50 dB minimum conversion gain and 1.8 dB maximum noise figure. Operates from a +12 VDC supply.

RF input frequency: Specification: 10.7–12.75; Unit: GHz

IF output frequency: Specification: 1.7–3.75; Unit: GHz

Downconversion gain: Specification: 50 (minimum); Unit: dB

Noise figure: Specification: 1.8 (maximum); Unit: dB

Product details Product datasheet



LCMIXD-2000-18000

2–18 GHz SPI-Controlled Broadband RF Downconverter Module

Broadband RF downconverter covering 2–18 GHz with a fixed 1.8 GHz IF output and 28 dB minimum conversion gain. SPI selects RF filters and programmable attenuation; two external LO inputs serve the conversion chain.

RF input frequency: Specification: 2–18; Unit: GHz; Notes: Broadband

IF output centre frequency: Specification: 1.8; Unit: GHz; Notes: Fixed

Conversion gain: Specification: ≥28; Unit: dB; Notes: Minimum

Noise figure: Specification: ≤12; Unit: dB

Product details Product datasheet



LCMIXUD-380-18000-2G

0.38–18 GHz RF Up/Downconverter Module with Internal LO

Separate upconversion and downconversion paths cover 0.38–18 GHz RF and 3.6 ±1 GHz IF, with up to 2 GHz instantaneous bandwidth. Both paths support direct operation over 0.38–4.6 GHz; internal LO sources and SPI control are integrated.

RF input frequency: Specification: 0.38–18; Unit: GHz; Notes: Broadband RF input

Converted IF output band: Specification: 3.6 ±1; Unit: GHz; Notes: Nominal centre 3.6 GHz

Direct RF output band: Specification: 0.38–4.6; Unit: GHz; Notes: Separate output path without frequency conversion

Instantaneous bandwidth: Specification: Up to 2; Unit: GHz; Notes: Source description; converted IF operation

Product details Product datasheet

Document notice

Specifications are subject to revision. Before design release, confirm the current document revision and product-specific requirements with LCRF. The approved quotation and order documentation define the supplied configuration.