Product catalog

Transceiver Converter Modules

Transceiver converter modules combine transmit and receive frequency conversion paths in one RF assembly. They translate signals between RF or microwave bands and IF stages for radios, satellite links, telemetry equipment and integrated front ends.



Products: 3

Revision: 6 · Revision date: 2026-11-11



LCMIXUD-6000-8500

6–8.5 GHz Integrated RF Up/Downconverter Module

Integrated conversion between 6–8.5 GHz RF and 3–5.5 GHz IF. The downconversion path provides 25 dB typical gain and 2 dB maximum noise figure; TTL control selects the active conversion direction.

RF operating frequency: Specification: 6–8.5; Unit: GHz

IF operating frequency: Specification: 3–5.5; Unit: GHz

Downconversion gain: Specification: 25; Typical; Unit: dB

Downconversion noise figure: Specification: 2; Maximum; Unit: dB

Product details Product datasheet



LCMIXUD-2000-18000A

2–18 GHz Up/Downconverter with 1.8 GHz IF

Separate conversion channels, 65 dB typical downconversion LNA gain and ≥15 dB upconversion gain with programmable attenuation.

RF input frequency: Value: 2–18; Unit: GHz

IF output frequency: Value: 1.8±0.5; Unit: GHz

LNA-path gain: Value: 65; Unit: dB; Notes: Typical: 65 dB.

Through-path gain: Value: 28; Unit: dB; Notes: Typical: 28 dB.

Product details Product datasheet



LCMIXUD-6000-8300

6–8.3 GHz Up/Downconverter with Dual IF Transmit Inputs

Mode-selected converter for 6–8.3 GHz RF and 3.2–5.5 GHz IF, with 30 dB typical downconversion gain and 2 dB maximum noise figure.

RF frequency range: Value: 6–8.3; Unit: GHz

IF frequency range: Value: 3.2–5.5; Unit: GHz

Downconversion gain: Value: 30; Unit: dB; Notes: Typical: 30 dB.

Downconversion noise figure: Value: 2; Unit: dB; Notes: Maximum: 2 dB.

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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.