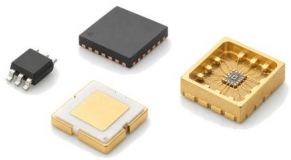
Product catalog

Mixer and Converter ICs

Mixer and converter ICs translate signals between RF, LO and IF. Compare passive, active, I/Q and image-reject topology, conversion gain or loss, noise figure, IIP3, P1dB, LO drive, isolation, spurious products and installed image rejection.



Products: 4

Revision: 4 · Revision date: 2026-11-11



LCI-MIX-500-2000-D

500–2000 MHz GaAs MMIC Passive Double-Balanced Mixer Die

Conversion loss: 9 dB (typical); LO power: 15 dBm; Operating frequency (IF): 0 MHz (minimum) / 900 MHz (maximum) / DC–900 MHz. Die dimensions: 2.1 × 1.45 × 0.1 mm.

Operating frequency: Minimum: 500; Maximum: 2000; Value: 500–2000 (RF / LO); Unit: MHz

Operating frequency (IF): Minimum: 0; Maximum: 900; Value: DC–900; Unit: MHz

Conversion loss: Typical: 9; Unit: dB

Isolation (LO / RF): Typical: 45; Unit: dB

TA = +25 °C

Product details Product datasheet



LCI-MIX-7000-10000-D

7000–10000 MHz GaAs MMIC Passive Double-Balanced Mixer Die

Conversion loss: 8.5 dB (typical); LO power: 14 dBm; Operating frequency (IF): 1400 MHz (minimum) / 3000 MHz (maximum) / 1400–3000 MHz. Die dimensions: 1.6 × 0.9 × 0.1 mm.

Operating frequency: Minimum: 7000; Maximum: 10000; Value: 7000–10000 (RF); Unit: MHz

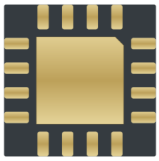
Operating frequency (LO): Minimum: 5000; Maximum: 9000; Value: 5000–9000; Unit: MHz

Operating frequency (IF): Minimum: 1400; Maximum: 3000; Value: 1400–3000; Unit: MHz

Conversion loss: Typical: 8.5; Unit: dB

TA = +25 °C

Product details Product datasheet



LCI-MIX-500-2000-C

500–2000 MHz Packaged Passive Double-Balanced Mixer — LO +14 dBm; IL -9 dB (typical)

500–2000 MHz; IF DC–900 MHz; Conversion loss -9 dB (typical); LOin = 14 dBm.

Operating frequency: Symbol: f; Minimum: 500; Maximum: 2000; Value: 500–2000; Unit: MHz

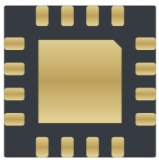
IF frequency range: Minimum: DC; Maximum: 900; Unit: MHz

Conversion loss: Symbol: IL; Typical: -9; Unit: dB

LO–RF isolation: Symbol: ISOL-R; Typical: -40; Unit: dB

TA = +25 °C; LOin = 14 dBm; RFin = -10 dBm

Product details Product datasheet



LCI-MIX-7000-10000-C

7000–10000 MHz Packaged Passive Double-Balanced Mixer — LO +14 dBm; IL -9 dB (typical)

7000–10000 MHz; IF 1400–3400 MHz; Conversion loss -9 dB (typical); LOin = 14 dBm.

Operating frequency: Symbol: f; Minimum: 7000; Maximum: 10000; Value: 7000–10000; Unit: MHz

IF frequency range: Minimum: 1400; Maximum: 3400; Unit: MHz

Conversion loss: Symbol: IL; Typical: -9; Unit: dB

LO–RF isolation: Symbol: ISOL-R; Typical: -40; Unit: dB

TA = +25 °C; LOin = 14 dBm; RFin = -10 dBm

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.