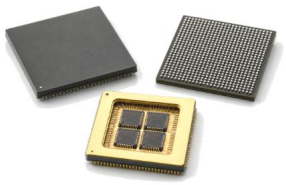
Product catalog

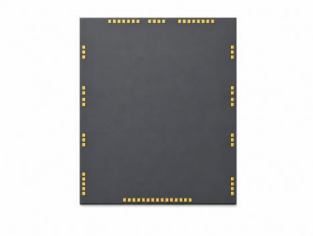
RF Beamformer ICs

RF beamformer ICs provide coordinated phase and gain control across multiple channels for phased-array transmit and receive front ends.

Products: 3

Revision: 8 · Revision date: 2026-11-11





LCI-BF-14000-18000-4CH

14000–18000 MHz Four-Channel SiGe T/R Beamformer Die

Phase step: 5.625 °; Attenuation range: 0–31.5 dB; Switching time: 100 ns (maximum). Plan-view die dimensions: 5 × 6.2 mm.

Operating frequency: Minimum: 14000; Maximum: 18000; Value: 14000–18000; Unit: MHz

Input/output VSWR: Typical: 1.8

RMS phase error: Maximum: 3; Unit: °

RMS attenuation error: Maximum: 0.3; Unit: dB

TA = +25 °C

Product details Product datasheet



LCI-BF-8000-12000-2CH

8000–12000 MHz Dual-Channel Si T/R Beamformer Die

Phase step: 5.625 ° (typical); Attenuation step: 0.5 dB (typical). Die dimensions: 3.6 × 2.7 × 0.15 mm.

Operating frequency: Minimum: 8000; Maximum: 12000; Value: 8000–12000; Unit: MHz

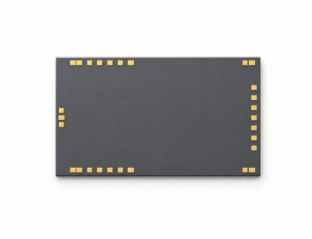
Phase-control resolution: Value: 6; Unit: bit

Attenuation-control resolution: Value: 6; Unit: bit

Phase shift range: Minimum: 0; Maximum: 360; Unit: °

CLK = 50 MHz; RFVDD = AVDD = DVDD = 3.3 V; TA = +27 °C

Product details Product datasheet



LCI-BF-3700-5000-2CH

3700–5000 MHz Dual-Channel GaAs MMIC Phase and Attenuation Control Die — 2 × 6-bit ϕ / 6-bit ATT

3700–5000 MHz; Insertion loss -13 dB (typical); 64-state RMS attenuation error 0.2 dB (typical); 64-state RMS phase error 2 ° (typical).

Operating frequency: Symbol: f; Minimum: 3700; Maximum: 5000; Value: 3700–5000; Unit: MHz

Insertion loss: Typical: -13; Unit: dB

Attenuation range: Maximum: 31.5; Unit: dB

64-state RMS attenuation error: Typical: 0.2; Unit: dB

TA = +25 °C; VEE = -5 V; Vd = +5 V

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.