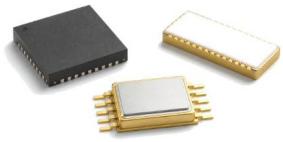
Product catalog

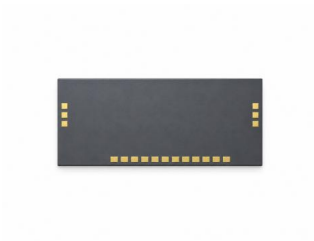
RF Phase Shifter ICs

RF phase shifter ICs introduce controlled phase states in one or more RF paths for steering, cancellation, calibration and vector control.

Products: 13

Revision: 10 · Revision date: 2026-11-11





LCI-PS-1200-1400-6B-D

1200–1400 MHz 6-Bit GaAs MMIC Digital Phase Shifter Die

RMS phase error: 0.5 ° (minimum) / 0.7 ° (typical) / 1 ° (maximum); Phase shift range: 5.625 ° (minimum) / 354.375 ° (maximum); Insertion loss: ≈5 dB. Die dimensions: 4 × 1.7 × 0.1 mm.

Operating frequency: Minimum: 1200; Maximum: 1400; Value: 1200–1400; Unit: MHz

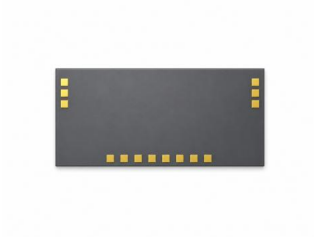
Phase shift range: Minimum: 5.625; Maximum: 354.375; Unit: °

RMS phase error: Minimum: 0.5; Typical: 0.7; Maximum: 1; Unit: °

Phase-induced amplitude variation: Typical: ±0.5; Unit: dB

TA = +25 °C

Product details Product datasheet



LCI-PS-5000-6000-6B

5000–6000 MHz 6-Bit GaAs MMIC Digital Phase Shifter Die

RMS phase error: 1 ° (typical); Insertion loss: 7 dB (typical); Phase shift range: 5.625 ° (minimum) / 354.375 ° (maximum). Die dimensions: 3.1 × 1.5 × 0.1 mm.

Operating frequency: Minimum: 5000; Maximum: 6000; Value: 5000–6000; Unit: MHz

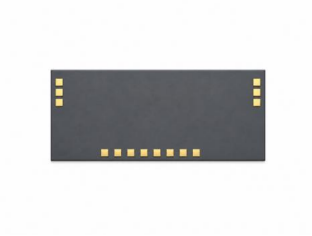
Insertion loss: Typical: 7; Unit: dB

Phase shift range: Minimum: 5.625; Maximum: 354.375; Unit: °

RMS phase error: Typical: 1; Unit: °

TA = +25 °C; VEE = -5 V

Product details Product datasheet



LCI-PS-2700-3500-6B

2700–3500 MHz 6-Bit GaAs MMIC Digital Phase Shifter Die

RMS phase error: 1 ° (typical); Insertion loss: 5.5 dB (typical); Phase shift range: 5.625 ° (minimum) / 354.375 ° (maximum). Die dimensions: 3.3 × 1.5 × 0.1 mm.

Operating frequency: Minimum: 2700; Maximum: 3500; Value: 2700–3500; Unit: MHz

Insertion loss: Typical: 5.5; Unit: dB

Phase shift range: Minimum: 5.625; Maximum: 354.375; Unit: °

RMS phase error: Typical: 1; Unit: °

TA = +25 °C; VEE = -5 V

Product details Product datasheet



LCI-PS-15000-23000-6B

15000–23000 MHz 6-Bit GaAs MMIC Digital Phase Shifter Die

RMS phase error: 1.4 ° (typical); Insertion loss: 9.5 dB (typical); Phase shift range: 5.625 ° (minimum) / 354.375 ° (maximum). Die dimensions: 3.1 × 1.1 × 0.1 mm.

Operating frequency: Minimum: 15000; Maximum: 23000; Value: 15000–23000; Unit: MHz

Insertion loss: Typical: 9.5; Unit: dB

Phase shift range: Minimum: 5.625; Maximum: 354.375; Unit: °

RMS phase error: Typical: 1.4; Unit: °

TA = +25 °C

Product details Product datasheet



LCI-PS-25000-33000-6B

25000–33000 MHz 6-Bit GaAs MMIC Digital Phase Shifter Die

RMS phase error: 1.6 ° (typical); Insertion loss: 9.5 dB (typical); Phase shift range: 5.625 ° (minimum) / 354.375 ° (maximum). Die dimensions: 3.1 × 1.1 × 0.1 mm.

Operating frequency: Minimum: 25000; Maximum: 33000; Value: 25000–33000; Unit: MHz

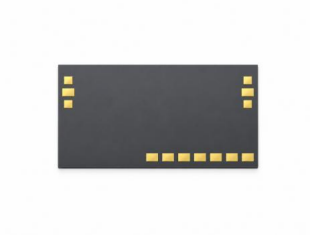
Insertion loss: Typical: 9.5; Unit: dB

Phase shift range: Minimum: 5.625; Maximum: 354.375; Unit: °

RMS phase error: Typical: 1.6; Unit: °

TA = +25 °C

Product details Product datasheet



LCI-PS-14000-18000-6B-D

14000–18000 MHz 6-Bit GaAs MMIC Digital Phase Shifter Die

RMS phase error: 1.2 ° (typical); Insertion loss: 7 dB (typical); Phase shift range: 5.625 ° (minimum) / 354.375 ° (maximum). Die dimensions: 2.5 × 1.3 × 0.1 mm.

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

Insertion loss: Typical: 7; Unit: dB

Phase shift range: Minimum: 5.625; Maximum: 354.375; Unit: °

RMS phase error: Typical: 1.2; Unit: °

TA = +25 °C

Product details Product datasheet



LCI-PS-900-1400-6B-D

900–1400 MHz 6-Bit GaAs MMIC Digital Phase Shifter Die

RMS phase error: 1.5 ° (typical); Insertion loss: 5 dB (typical); Phase shift range: 5.625 ° (minimum) / 354.375 ° (maximum). Die dimensions: 3.6 × 1.3 × 0.1 mm.

Operating frequency: Minimum: 900; Maximum: 1400; Value: 900–1400; Unit: MHz

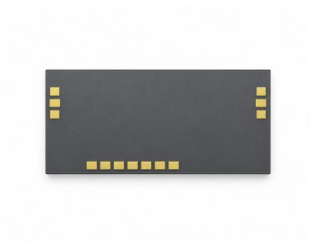
Insertion loss: Typical: 5; Unit: dB

Phase shift range: Minimum: 5.625; Maximum: 354.375; Unit: °

RMS phase error: Typical: 1.5; Unit: °

TA = +25 °C

Product details Product datasheet



LCI-PS-1200-1600-6B-D

1200–1600 MHz 6-Bit GaAs MMIC Digital Phase Shifter Die

RMS phase error: 0.8 ° (typical); Insertion loss: 4.3 dB (typical); Phase shift range: 5.625 ° (minimum) / 354.375 ° (maximum). Die dimensions: 3.3 × 1.6 × 0.1 mm.

Operating frequency: Minimum: 1200; Maximum: 1600; Value: 1200–1600; Unit: MHz

Insertion loss: Typical: 4.3; Unit: dB

Phase shift range: Minimum: 5.625; Maximum: 354.375; Unit: °

RMS phase error: Typical: 0.8; Unit: °

TA = +25 °C

Product details Product datasheet



LCI-PS-2000-8000-6B

2000–8000 MHz 6-Bit GaAs MMIC Digital Phase Shifter Die

RMS phase error: 2.2 ° (typical) / 3 ° (maximum); Insertion loss: 10 dB (typical) / 11.5 dB (maximum); Phase shift range: 5.625 ° (minimum) / 354.375 ° (maximum). Die dimensions: 5 × 1.75 × 0.1 mm.

Operating frequency: Minimum: 2000; Maximum: 8000; Value: 2000–8000; Unit: MHz

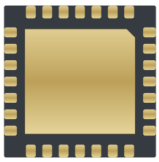
Insertion loss: Typical: 10; Maximum: 11.5; Unit: dB

Phase shift range: Minimum: 5.625; Maximum: 354.375; Unit: °

RMS phase error: Typical: 2.2; Maximum: 3; Unit: °

TA = +25 °C

Product details Product datasheet



LCI-PS-900-1400-6B-C

900–1400 MHz Digital Phase Shifter IC — 6-bit; RMS 1.5° (typical)

900–1400 MHz; 64-state RMS phase error 1.5 ° (typical); Phase-induced amplitude variation ±0.4 dB (typical); Input VSWR 1.5 (typical); Output VSWR 1.4 (typical).

Operating frequency: Symbol: f; Minimum: 900; Maximum: 1400; Value: 900–1400; Unit: MHz

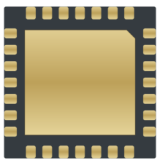
Phase shift range: Minimum: 5.625; Maximum: 354.375; Unit: °

Insertion loss: Typical: -5.4; Unit: dB

64-state RMS phase error: Typical: 1.5; Unit: °

TA = +25 °C

Product details Product datasheet



LCI-PS-1200-1400-6B-C

1200–1400 MHz Digital Phase Shifter IC — 6-bit; RMS 0.7° (typical)

1200–1400 MHz; 64-state RMS phase error 0.7 ° (typical); Phase-induced amplitude variation ±0.5 dB (typical); Input VSWR 1.4 (typical); Output VSWR 1.4 (typical).

Operating frequency: Symbol: f; Minimum: 1200; Maximum: 1400; Value: 1200–1400; Unit: MHz

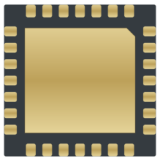
Phase shift range: Minimum: 5.625; Maximum: 354.375; Unit: °

Insertion loss: Typical: -5.4; Unit: dB

64-state RMS phase error: Typical: 0.7; Unit: °

TA = +25 °C

Product details Product datasheet



LCI-PS-1200-1600-6B-C

1200–1600 MHz Digital Phase Shifter IC — 6-bit; RMS 0.8° (typical)

1200–1600 MHz; 64-state RMS phase error 0.8 ° (typical); Phase-induced amplitude variation ±0.4 dB (typical); Input VSWR 1.4 (typical); Output VSWR 1.4 (typical).

Operating frequency: Symbol: f; Minimum: 1200; Maximum: 1600; Value: 1200–1600; Unit: MHz

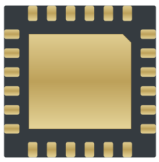
Phase shift range: Minimum: 5.625; Maximum: 354.375; Unit: °

Insertion loss: Typical: -4.7; Unit: dB

64-state RMS phase error: Typical: 0.8; Unit: °

TA = +25 °C

Product details Product datasheet



LCI-PS-14000-18000-6B-C

14000–18000 MHz Digital Phase Shifter IC — 6-bit; RMS 1.2° (typical)

14000–18000 MHz; 64-state RMS phase error 1.2 ° (typical); Phase-induced amplitude variation ±0.3 dB (typical); Input VSWR 1.5 (typical); Output VSWR 1.3 (typical).

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

Phase shift range: Minimum: 5.625; Unit: °

Insertion loss: Typical: -7.4; Unit: dB

64-state RMS phase error: Typical: 1.2; Unit: °

TA = +25 °C

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.