Product catalog

Passive RF Network & Impedance Components

Engineering selection for passive RF loads, terminations, matching and equalizing networks, bias-isolation parts and related impedance-control components, bounded by frequency, reference impedance, reflection, power, temperature and environment.



Products: 11

Revision: 7 · Revision date: 2026-11-11

RF Resistors



LCRES-R15OHM

15 Ω GaAs thin-film resistor die

Resistance: 15 Ω (typical); Linear operating current: 0.35 A (typical); Maximum allowable current: 0.8 A (maximum). Plan-view die dimensions: 0.5 × 0.5 mm.

Resistor count: Value: 1

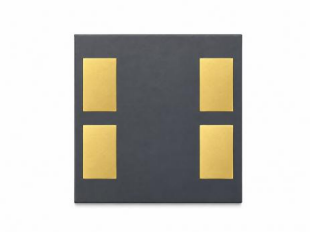
Terminal count: Value: 2

Resistance: Typical: 15; Unit: Ω

Resistance tolerance: Typical: ±5; Unit: %

TA = +25 °C

Product details Product datasheet



LCRES-N2-R20OHM

2 × 20 Ω GaAs thin-film resistor die

Resistance: 20 / 20 Ω (typical); Linear operating current: 0.165 / 0.165 A (typical); Maximum allowable current: 0.33 A (maximum). Plan-view die dimensions: 0.5 × 0.5 mm.

Resistor count: Value: 2

Terminal count: Value: 4

Resistance: Typical: 20 / 20; Unit: Ω

Resistance tolerance: Typical: ±5; Unit: %

TA = +25 °C

Product details Product datasheet



LCRES-R50OHM

50 Ω GaAs thin-film resistor die

Resistance: 50 Ω (typical); Linear operating current: 0.2 A (typical); Maximum allowable current: 0.6 A (maximum). Plan-view die dimensions: 0.5 × 0.5 mm.

Resistor count: Value: 1

Terminal count: Value: 2

Resistance: Typical: 50; Unit: Ω

Resistance tolerance: Typical: ±5; Unit: %

TA = +25 °C

Product details Product datasheet



LCRES-R1000OHM

1000 Ω GaAs thin-film resistor die

Resistance: 1000 Ω (typical); Linear operating current: 0.04 A (typical); Maximum allowable current: 0.08 A (maximum). Plan-view die dimensions: 0.5 × 0.5 mm.

Resistor count: Value: 1

Terminal count: Value: 2

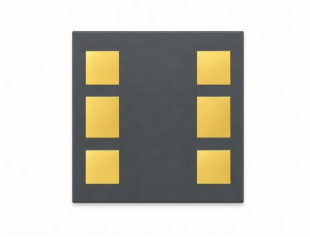
Resistance: Typical: 1000; Unit: Ω

Resistance tolerance: Typical: ±5; Unit: %

TA = +25 °C

Product details Product datasheet

RF Capacitors



LCCAP-C10PF

10 pF GaAs capacitor die

Capacitance: 10 pF (typical); Withstand voltage: 50 V (typical). Die dimensions: 0.5 × 0.5 × 0.1 mm.

Capacitance: Typical: 10; Unit: pF; TA = +25 °C

Withstand voltage: Typical: 50; Unit: V; TA = +25 °C

Breakdown voltage: Value: 80 (Vb); Unit: V

Storage temperature: Minimum: -65; Maximum: 150; Unit: °C

Product details Product datasheet

RF Equalizers



LCEQ-8000-12000-D

8000–12000 MHz GaAs slope equalizer die

Equalization amount: 2 dB; Insertion loss @ 8000 MHz: 2.6 dB; Insertion loss @ 12000 MHz: 0.7 dB. Die dimensions: 0.8 × 0.8 × 0.1 mm.

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

Equalization amount: Value: 2; Unit: dB

Insertion loss @ 8000 MHz: Value: 2.6; Unit: dB

Insertion loss @ 12000 MHz: Value: 0.7; Unit: dB

Product details Product datasheet



LCEQ-2000-6000-D

2000–6000 MHz GaAs slope equalizer die

Equalization amount: 5.5 dB; Insertion loss @ 2000 MHz: 0.6 dB; Insertion loss @ 6000 MHz: 6.1 dB. Die dimensions: 0.8 × 0.9 × 0.1 mm.

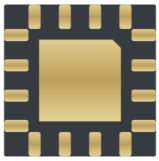
Operating frequency: Minimum: 2000; Maximum: 6000; Value: 2000–6000; Unit: MHz

Equalization amount: Value: 5.5; Unit: dB

Insertion loss @ 2000 MHz: Value: 0.6; Unit: dB

Insertion loss @ 6000 MHz: Value: 6.1; Unit: dB

Product details Product datasheet



LCEQ-8000-12000-C

8000–12000 MHz Packaged RF Equalizer — ΔIL 2 dB; IL -3.1 → -1.1 dB (typical)

8000–12000 MHz; Equalization magnitude 2 dB (typical); Insertion loss at lower band edge -3.1 dB (typical) @ 8000 MHz; Insertion loss at upper band edge -1.1 dB (typical) @ 12000 MHz.

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

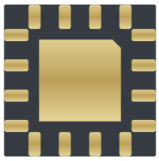
Insertion loss at lower band edge: Typical: -3.1; Value: f = 8000 MHz; Unit: dB

Insertion loss at upper band edge: Typical: -1.1; Value: f = 12000 MHz; Unit: dB

Equalization magnitude: Typical: 2; Unit: dB

TA = +25 °C

Product details Product datasheet



LCEQ-2000-6000-C

2000–6000 MHz Packaged RF Equalizer — ΔIL 5.5 dB; IL -1 → -6.5 dB (typical)

2000–6000 MHz; Equalization magnitude 5.5 dB (typical); Insertion loss at lower band edge -1 dB (typical) @ 2000 MHz; Insertion loss at upper band edge -6.5 dB (typical) @ 6000 MHz.

Operating frequency: Symbol: f; Minimum: 2000; Maximum: 6000; Value: 2000–6000; Unit: MHz

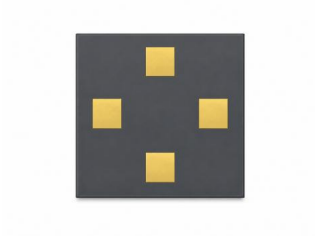
Insertion loss at lower band edge: Typical: -1; Value: f = 2000 MHz; Unit: dB

Insertion loss at upper band edge: Typical: -6.5; Value: f = 6000 MHz; Unit: dB

Equalization magnitude: Typical: 5.5; Unit: dB

TA = +25 °C

Product details Product datasheet



LCXOV-DC-40000-D

DC–40000 MHz GaAs RF crossover die

Insertion loss: 0.4 dB (typical); Isolation: 30 dB (typical); Return loss: 20 dB (typical). Die dimensions: 0.6 × 0.6 × 0.1 mm.

Operating frequency: Minimum: 0; Maximum: 40000; Value: DC–40000; Unit: MHz

Insertion loss: Typical: 0.4; Unit: dB

Isolation: Typical: 30; Unit: dB

Return loss: Typical: 20; Unit: dB

TA = +25 °C

Product details Product datasheet

RF Loads & Dummy Loads



LCLOAD-6000-25

DC–6 GHz, 25 W RF Load

50 Ω RF termination from DC to 6 GHz, with 25 W typical and 20 W minimum CW power handling. Typical VSWR is 1.3:1.

Operating frequency: Minimum: DC; Maximum: 6000; Unit: MHz

CW RF power handling: Minimum: 20; Typical: 25; Unit: W

VSWR: Typical: 1.3:1

Impedance: Typical: 50; Unit: Ω

25 °C; 50 Ω

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.