Product catalog

Signal Sources & Timing

Signal Sources & Timing covers RF and microwave hardware that establishes frequency, phase and timing references. It includes LO sources, crystal oscillators, PLLs, synthesizers, clock modules and reference distribution hardware.



Products: 10

Revision: 1 · Revision date: 2026-11-08

Frequency Synthesizers



LCLFM-2400-2500-1

2400–2500 MHz PLL Linear Frequency Sweep Source

Triangular LFM source with approximately 1 µs scan time, 5 dBm typical saturated output and an SMA female RF connector.

Output frequency: Value: 2400–2500; Unit: MHz

Saturated output power (Psat): Value: 5; Unit: dBm; Notes: Typical: 5 dBm.

Output impedance: Value: 50; Unit: Ω; Notes: Typical: 50 Ω.

Supply voltage: Value: 28; Unit: VDC; Notes: Typical: 28 VDC.

Product details Product datasheet



LCLFM-5150-5250-1

5150–5250 MHz PLL Linear Frequency Sweep Source

Analog triangular LFM with approximately 1 µs scan time, 2 dBm typical saturated output and 50 Ω typical output impedance.

Output frequency: Value: 5150–5250; Unit: MHz

Saturated output power (Psat): Value: 2; Unit: dBm; Notes: Typical: 2 dBm.

Output impedance: Value: 50; Unit: Ω; Notes: Typical: 50 Ω.

Supply voltage: Value: 28; Unit: VDC; Notes: Typical: 28 VDC.

Product details Product datasheet



LCLFM-5725-5850-1

5725–5850 MHz PLL Linear Frequency Sweep Source

PLL-based triangular LFM source, approximately 1 µs scan time, 2 dBm typical saturated RF power and SMA female output.

Output frequency: Value: 5725–5850; Unit: MHz

Saturated output power (Psat): Value: 2; Unit: dBm; Notes: Typical: 2 dBm.

Output impedance: Value: 50; Unit: Ω; Notes: Typical: 50 Ω.

Supply voltage: Value: 28; Unit: VDC; Notes: Typical: 28 VDC.

Product details Product datasheet



LCSYN-2400-2485-1

2400–2485 MHz PLL LFM Sweep Source

PLL-based triangular LFM source covering 2400–2485 MHz, with 5 dBm typical saturated output and an approximately 1 µs scan time.

RF output frequency: Symbol: BW; Minimum: 2400; Maximum: 2485; Unit: MHz

Saturated RF output power: Symbol: PSAT; Typical: 5; Unit: dBm; PSAT

Output impedance: Symbol: Impedance; Typical: 50; Unit: Ω

Operating voltage: Symbol: VDC; Typical: 28; Unit: V

Product details Product datasheet



LCSYN-2400-2500-1

2400–2500 MHz PLL LFM Sweep Source

Triangular PLL LFM sweep over 2400–2500 MHz, with 5 dBm typical PSAT and an approximately 1 µs scan time.

RF output frequency: Symbol: BW; Minimum: 2400; Maximum: 2500; Unit: MHz

Saturated RF output power: Symbol: PSAT; Typical: 5; Unit: dBm; PSAT

Output impedance: Symbol: Impedance; Typical: 50; Unit: Ω

Operating voltage: Symbol: VDC; Typical: 28; Unit: V

Product details Product datasheet



LCSYN-5150-5250-1

5150–5250 MHz PLL LFM Sweep Source

A 5150–5250 MHz triangular LFM source using PLL technology, delivering 2 dBm typical saturated output with an approximately 1 µs scan.

RF output frequency: Symbol: BW; Minimum: 5150; Maximum: 5250; Unit: MHz

Saturated RF output power: Symbol: PSAT; Typical: 2; Unit: dBm; PSAT

Output impedance: Symbol: Impedance; Typical: 50; Unit: Ω

Operating voltage: Symbol: VDC; Typical: 28; Unit: V

Product details Product datasheet



LCSYN-5725-5850-1

5725–5850 MHz PLL LFM Sweep Source

Triangular LFM across 5725–5850 MHz, with an approximately 1 µs scan time and 2 dBm typical saturated RF output.

RF output frequency: Symbol: BW; Minimum: 5725; Maximum: 5850; Unit: MHz

Saturated RF output power: Symbol: PSAT; Typical: 2; Unit: dBm; PSAT

Output impedance: Symbol: Impedance; Typical: 50; Unit: Ω

Operating voltage: Symbol: VDC; Typical: 28; Unit: V

Product details Product datasheet

Local Oscillator Sources



LCLOS-22000-44000-2

22–44 GHz Two-Output Local Oscillator Module

Two-output LO module with a tunable 22–44 GHz RF1 path and a fixed 20.2 GHz RF2 path. A 100 MHz external reference and 3-wire SPI control support millimeter-wave RF frequency planning.

Reference frequency: Value: 100; Unit: MHz

Reference input power: Value: 5–10; Unit: dBm

Reference phase noise @ 100 Hz: Value: ≤-130; Unit: dBc/Hz

Reference phase noise @ 1 kHz: Value: ≤-150; Unit: dBc/Hz

Product details Product datasheet



LCLOS-22000-44000-4

22–44 GHz Four-Output Local Oscillator Module

Four-output LO module with tunable 22–44 GHz RF11/RF12 paths and fixed 20.2 GHz RF21/RF22 paths. The paired outputs share a 100 MHz external reference and 3-wire SPI control.

Reference frequency: Value: 100; Unit: MHz

Reference input power: Value: 5–10; Unit: dBm

Reference phase noise @ 100 Hz: Value: ≤-130; Unit: dBc/Hz

Reference phase noise @ 1 kHz: Value: ≤-150; Unit: dBc/Hz

Product details Product datasheet

Oven Controlled Crystal Oscillators (OCXO)



LCOCXO-100M-50P-LN-5V

100 MHz OCXO with ±50 ppb Temperature Stability

Sine-wave reference with 8 dBm typical output, 4.8–5.2 V supply range and specified output characteristics from −55 to +85 °C.

Output frequency: Value: 100; Unit: MHz; Notes: Typical: 100 MHz.

Initial frequency accuracy: Value: ±0.2; Unit: ppm; Notes: Stated signed tolerance; not a scalar minimum limit. At +25 °C, 15 minutes after power-on, within 90 days of shipment.; At +25 °C, 15 minutes after power-on, within 90 days of shipment.

Waveform: Value: Sine wave

Output level: Value: +6 / +8; Unit: dBm; Notes: Typical: 8 dBm. Minimum: 6 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.