Product catalog

# Frequency Synthesizers

Frequency synthesizers derive programmable output frequencies from a reference. Frequency resolution, phase noise, spurs and retuning behavior define the usable channel plan for RF generation.



Products: 7

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



## 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

**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.