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Data Sheet

August 13, 2026

AEROFLEX

Aeroflex CS25150F 18.00GHz Signal Generator

Aeroflex CS25150F Broadband Signal and Environment Generator 18 GHz The Aeroflex CS25150F is an 18 GHz class Broadband Signal and Environment Generator (BSG) in the Aeroflex deep memory RF/baseband source family. It combines high speed arbitrary waveform generation, broadband RF upconversion, and Vector Signal Simulator software to create hopped, burst, and impaired wideband signals for satellite, radar, EW, and agile radio test. 18 GHz RF environment simulation; wideband satellite and radar scenario playback; frequency agile hop testing to 500000 hops/s; commercial wireless and custom nPSK/nQAM waveform generation with optional recorded environment mixing. The Aeroflex CS25150F is an 18 GHz class Broadband Signal and Environment Generator (BSG) in the Aeroflex deep memory RF/baseband source family. It combines high speed arbitrary waveform generation, broadband RF upconversion, and Vector Signal Simulator software to create hopped, burst, and impaired wideband signals for satellite, radar, EW, and agile radio test. 18 GHz RF environment simulation; wideband satellite and radar scenario playback; frequency agile hop testing to 500000 hops/s; commercial wireless and custom nPSK/nQAM waveform generation with optional recorded environment mixing.



MODEL

Aeroflex CS25150F

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

CS25150F

LISTING

<https://aumictechlabs.com/products/cs25150f-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Aeroflex CS25150F is a broadband signal and environment generator engineered for high-frequency RF testing up to 18.00 GHz. It generates complex communication and radar signals with instantaneous bandwidths to 500 MHz, supporting multiple modulation types and custom waveforms via Vector Signal Simulator software. The instrument delivers 1.0 Hz frequency resolution and hop rates to 500,000 hops per second, enabling frequency-agile signal synthesis across continuous, burst, and hopped configurations.

Technical Specifications

Model: CS25150F-
RF Maximum Frequency: 18.00 GHz
Instantaneous Bandwidth: Up to 500 MHz
Frequency Resolution: 1.0 Hz
Hop Rate: Up to 500,000 hops per second
Dynamic Range: 45 dB SFDR typical (400 MHz bandwidth)
Modulation Types: AM, FM, Pulse, Phase, FSK, I/Q, ASK, MSK, PSK, QAM
Key Features Generates continuous, burst, and hopped signals (FSK, MSK, PSK, QAM, ASK, OOK, AM, FM, PM, SSB) Signal memory to 88 seconds at full bandwidth in solid-state configuration Extended playback to 150 minutes via optional streaming RAID Digital up-conversion with tuning for extended playback times Open, software-defined architecture with full control over time, frequency, and modulation parameters Vector Signal Simulator software for waveform creation and commercial wireless standard signal files User waveform import and real signal integration with digital signal combination Impairment injection: thermal noise, phase noise, passband amplitude and phase distortion

Typical Applications Broadband satellite communications Frequency-agile radio communications Broadband wireless network communications Radar testing

Compatibility & Integration The instrument supports import of user-created waveforms and real signals from external sources, enabling flexible integration into diverse test environments.

CS25150F Characteristics / Specifications

PARAMETER	VALUE
Model	CS25150F
Manufacturer	Aeroflex
Instrument Type	Broadband Signal and Environment Generator (BSG)
Alias	CS25150F; Aeroflex CS25150F
Frequency range maximum	18 GHz
Frequency resolution	1 Hz
Instantaneous bandwidth family maximum	500 MHz
Full bandwidth memory solid state	up to 88 seconds
RAID streaming memory extension	up to 150 minutes
Frequency hop rate maximum	500000 hops per second
Modulation types	AM; FM; PM; pulse; FSK; IQ; ASK; MSK; PSK; QAM; OOK; SSB
Architecture	deep memory AWG plus broadband RF upconverter
Software	Vector Signal Simulator (VSS)
Generic signals	nPSK; nQAM; nFSK; MSK; CW; tone combs; notched noise
Time domain control	continuous; burst; gated; hopped sequences
Impairment injection	noise; phase noise; passband distortion; interference; multipath
Recording mix	combine captured environments with digital impairments
Open waveform import	user defined signal files
Related CS25020F	18 GHz 60 MHz bandwidth 58 dB SFDR sibling
Related CS25080F RF	255 MHz bandwidth 45 dB SFDR variant
Upconverter type	real (non I/Q) architecture for dynamic range
Application focus	SATCOM; radar; EW; frequency agile radio; wireless networks
Control	software defined instrument PC hosted control
Carrier tuning	digital upconversion with frequency agility

PARAMETER	VALUE
Environment realism	long playback memory for multi second scenarios Notes CS25150F public tables mirror BSG family headlines with 18 GHz listing; confirm bandwidth option, output level plan, RAID memory, and VSS license on the installed system.
Bandwidth	Up to 88 seconds full bandwidth on board memory; RAID to 150 minutes

CS25150F Specifications

PARAMETER	VALUE
Key Features	18 GHz maximum frequency listing in CS25150F inventory
BSG family up to 500 MHz instantaneous bandwidth	Up to 88 seconds full bandwidth on board memory; RAID to 150 minutes
Technical Specifications	Model: CS25150F

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes

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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.