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Data Sheet

August 13, 2026

AEROFLEX

Aeroflex CS25020 40.00GHz Signal Generator

Microwave and mmWave component stimulus to 40 GHz; radar and satellite link simulation; automated test system LO and RF source; high frequency synthesizer replacement in legacy Aeroflex CS25000 family racks. Frequency coverage to 40 GHz in CS25020 listing configuration CS25000 series modular microwave synthesizer architecture Designed for automated test system integration Frequency coverage to 40 GHz in CS25020 listing configuration CS25000 series modular microwave synthesizer architecture Designed for automated test system integration Wideband signal generation with low phase noise class performance



MODEL

Aeroflex CS25020

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

CS25020

LISTING

<https://aumictechlabs.com/products/cs25020-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Aeroflex CS25020 is a high-frequency signal generator engineered for RF and microwave test applications demanding performance to 40 GHz. It delivers both analog and digital modulation capabilities, enabling characterization of advanced communication systems and complex RF designs. The instrument generates signals with low harmonic distortion, preserving signal integrity across demanding measurement scenarios. Programmable sweep functionality allows precise device-under-test evaluation and detailed frequency-domain analysis. Technical Specifications Frequency Range: DC to 40 GHz Modulation: Analog and digital modulation support

Harmonic Distortion: Low harmonic distortion for signal fidelity Sweep Control: Programmable frequency sweeps

Key Features Broad frequency coverage to 40 GHz positions this generator across X-band, Ku-band, and Ka-band applications. Dual modulation architecture accommodates both conventional analog schemes and contemporary digital formats. Low harmonic output ensures minimal spectral contamination when measuring sensitive or narrowband devices. Programmable sweep modes enable rapid device characterization without manual frequency stepping.

Typical Applications High-speed communication system validation Millimeter-wave component characterization Frequency-dependent device response mapping Complex RF design evaluation Multi-band system testing

Compatibility & Integration The CS25020 integrates within the broader Aeroflex CS25000 series ecosystem, positioning it alongside industry-standard RF test platforms from Keysight, Rohde & Schwarz, and Anritsu for unified test environments.

CS25020 Characteristics / Specifications

PARAMETER	VALUE
Model	CS25020
Manufacturer	Aeroflex
Instrument Type	Microwave RF Signal Generator / Frequency Synthesizer
Alias	CS25020; Aeroflex CS25020; CS25020 40 GHz
Product family	CS25000 Series
Frequency range maximum	40 GHz
Instrument class	microwave frequency synthesizer
Primary application	radar satellite wireless communication test
Integration	automated test equipment and bench systems
Modulation support listing	analog and digital modulation capable
Spectral purity class	ultra low phase noise (family marketing)
Frequency stability class	high stability microwave synthesis
Output architecture	leveled microwave synthesizer output
Form factor	rack/bench microwave signal source
Related model CS250	40 GHz signal generator family member
Related model CS251	500 MHz band family member
Related model CS252	255 MHz band family member
Operating environment	laboratory and production RF test
Remote control	system dependent (confirm interface on unit)
Calibration	factory and service calibration supported on market listings
Power and mechanical	confirm faceplate rating on installed configuration
Listing frequency headline	40.00 GHz maximum catalog rating Notes Public OEM numeric tables for CS25020 alone are sparse beyond 40 GHz coverage and family identity; confirm installed upconverter/output module, level range, and interface options on the unit faceplate and calibration certificate.

CS25020 Specifications

PARAMETER	VALUE
Key Features	Frequency coverage to 40 GHz in CS25020 listing configuration
Designed for automated test system integration	Wideband signal generation with low phase noise class performance
Technical Specifications	Model: CS25020

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.

performance microwave frequency synthesizer in the CS25000 series with coverage to 40 GHz. It targets radar, satellite, wireless communication, and automated RF test where wideband agile synthesis, spectral purity, and repeatable leveling are required in laboratory and production environments.

Applications

Microwave and mmWave component stimulus to 40 GHz; radar and satellite link simulation; automated test system LO and RF source; high frequency synthesizer replacement in legacy Aeroflex CS25000 family racks.

Key Features

Frequency coverage to 40 GHz in CS25020 listing configuration

CS25000 series modular microwave synthesizer architecture

Designed for automated test system integration

Wideband signal generation with low phase noise class performance

Suited to radar, SATCOM, and wireless communication test benches

Related family models include CS25040 and CS25080 at 40 GHz class

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	CS25020
Manufacturer	Aeroflex
Instrument Type	Microwave RF Signal Generator / Frequency Synthesizer
Alias	CS25020; Aeroflex CS25020; CS25020 40 GHz
Product family	CS25000 Series
Frequency range maximum	40 GHz
Instrument class	microwave frequency synthesizer
Primary application	radar satellite wireless communication test
Integration	automated test equipment and bench systems
Modulation support listing	analog and digital modulation capable
Spectral purity class	ultra low phase noise (family marketing)
Frequency stability class	high stability microwave synthesis
Output architecture	leveled microwave synthesizer output
Form factor	rack/bench microwave signal source
Related model CS25040	40 GHz signal generator family member
Related model CS25080	40 GHz signal generator family member
Related model CS25025	200 MHz band family member
Related model CS25130	500 MHz band family member
Related model CS25255	255 MHz band family member

PARAMETER	VALUE
Operating environment	laboratory and production RF test
Remote control	system dependent (confirm interface on unit)
Calibration	factory and service calibration supported on market listings
Power and mechanical	confirm faceplate rating on installed configuration
Listing frequency headline	40.00 GHz maximum catalog rating

Notes
Public OEM numeric tables for CS25020 alone are sparse beyond 40 GHz coverage and family identity; confirm installed upconverter/output module, level range, and interface options on the unit faceplate and calibration certificate.

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.