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Data Sheet

August 13, 2026

AEROFLEX

Aeroflex CS25080 40.00GHz Signal Generator

Aeroflex CS25080 Signal Generator to 40 GHz The Aeroflex CS25080 is a microwave signal generator providing frequency coverage to 40 GHz for satellite, radar, and defense test applications. It emphasizes spectral purity, low noise, and fast frequency switching for advanced RF component evaluation and automated test systems. The Aeroflex CS25080 is a microwave signal generator providing frequency coverage to 40 GHz for satellite, radar, and defense test applications. It emphasizes spectral purity, low noise, and fast frequency switching for advanced RF component evaluation and automated test systems.



MODEL

Aeroflex CS25080

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

CS25080

LISTING

<https://aumictechlabs.com/products/cs25080-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Aeroflex CS25080 is a signal generator delivering output frequencies to 40 GHz, purpose-built for demanding RF and microwave testing in radar, satellite, and defense communications environments. The instrument combines ultra-low phase noise performance with fast frequency switching and flexible modulation capabilities - making it ideal for advanced system validation where spectral purity and signal fidelity are critical. Technical Specifications Frequency Range: DC to 40 GHz Phase Noise: Ultra-low phase noise performance Frequency Switching: Fast switching capability Spectral Purity: High spectral purity for minimal test uncertainty Modulation Support: AM, FM, Phase Modulation (ØM), and pulse modulation; internal modulation generators capable of

sine, square, triangular, ramp, and noise waveforms

Key Features

- Digital and analog modulation formats for flexible signal conditioning
- Fast frequency switching enabling rapid test sequences and dynamic stimulus profiles
- Internal modulation generators supporting multiple waveform types
- Graphical user interface for intuitive operation
- Programming interfaces supporting C++, Python, and Java for automated test integration

Typical Applications

- Radar system testing and validation
- Satellite communications development
- Defense communications signal evaluation
- Advanced receiver and transmitter characterization
- System-level RF and microwave testing

Compatibility & Integration

The CS25080 integrates into multi-language test environments through standard programming interfaces. Control via GUI or command-line programming enables both manual operation and fully automated test sequences.

Features & description

From manufacturer datasheet

Features

- Frequency coverage to 40 GHz class
- High spectral purity and low phase noise emphasis
- Fast frequency switching for ATE
- Suitable for telecom radar and satellite test
- Rack or bench instrument form factor
- Remote programming for production systems

Applications

- Microwave and mmWave component stimulus to 40 GHz
- Satellite and defense RF subsystem test
- Automated test system LO and modulated sources
- Radar and telecom high-frequency signal simulation

CS25080 Characteristics / Specifications

PARAMETER	VALUE
Model	CS25080
Manufacturer	Aeroflex
Instrument Type	Microwave Signal Generator
Alias	CS25080; Aeroflex CS25080; CS25080-40-00GHz
Frequency range class	to 40 GHz
Product family	Aeroflex CS25000 signal generator series
Related model CS250	200 MHz class low-frequency sibling
Related model CS251	500 MHz class sibling
Application focus	microwave satellite defense test
Spectral purity	high purity low noise emphasis
Frequency agility	fast switching class for ATE
Output interface	coax mmWave class per configuration
Control interface	GPIB or LAN class per configuration
Form factor	bench or rack mount class
Calibration	factory and service calibration supported
Typical use	RF component and subsystem characterization
Operating environment	lab and production class
Power requirements	AC mains instrument class
Listing descriptor	40.00 GHz signal generator
Product status	verify against Aeroflex catalog for options
Frequency headline listing	40.00 GHz maximum coverage class
Service support	calibration and repair via test equipment vendors Notes Limited published numeric tables located for Aeroflex CS25080 beyond frequency headline and application class. Confirm exact start frequency, output power, connectors, and options against the CS25080 operation manual or calibration certificate for the serial.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Frequency headline listing	40.00 GHz maximum coverage class
Service support	calibration and repair via test equipment vendors Notes Limited published numeric tables located for Aeroflex CS25080 beyond frequency headline and application class. Confirm exact start frequency, output power, connectors, and options against the CS25080 operation manual or calibration certificate for the serial.

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	
Specifications	
PARAMETER	VALUE
Model	CS25080
Manufacturer	Aeroflex
Instrument Type	Microwave Signal Generator
Alias	CS25080; Aeroflex CS25080; CS25080-40-00GHz
Frequency range class	to 40 GHz
Product family	Aeroflex CS25000 signal generator series
Related model CS25040	40 GHz class sibling listing
Related model CS25020	40 GHz class sibling listing
Related model CS25025	200 MHz class low-frequency sibling
Related model CS25130	500 MHz class sibling
Application focus	microwave satellite defense test
Spectral purity	high purity low noise emphasis
Frequency agility	fast switching class for ATE
Output interface	coax mmWave class per configuration
Control interface	GPIB or LAN class per configuration
Form factor	bench or rack mount class
Calibration	factory and service calibration supported
Typical use	RF component and subsystem characterization
Operating environment	lab and production class
Power requirements	AC mains instrument class
Listing descriptor	40.00 GHz signal generator
Product status	verify against Aeroflex catalog for options
Note on naming: CS25080 also used by unrelated environmental SKUs	
Frequency headline listing: 40.00 GHz maximum coverage class	
Service support: calibration and repair via test equipment vendors	
Notes	
Limited published numeric tables located for Aeroflex CS25080 beyond frequency headline and application	

class. Confirm exact start frequency, output power, connectors, and options against the CS25080 operation manual or calibration certificate for the serial.

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.