

AEROFLEX

FS-2000A-18

The Aeroflex FS-2000A-18 is a high-performance direct analog frequency synthesizer belonging to the renowned FS2000 family. Combining sub-microsecond frequency switching with exceptional spectral purity, the FS-2000A-18 is designed for demanding applications such as radar testing, fast ATE systems, and electronic warfare simulation. It uses a patented modular direct analog architecture with a central reference generator to deliver outstanding speed and phase noise performance.

SPECIFICATIONS

General

Interfaces	Parallel BCD (standard), GPIB (optional)
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Physical

Power Supply	115 / 230 VAC nominal, 47 - 63 Hz
Operating Temperature	0 °C to +50 °C °C
Dimensions (W×H×D)	482.6 mm × 133.4 mm × 558.8 mm mm

Frequency Specifications

Frequency Range	10 MHz to 18.4 GHz
Frequency Switching Speed	< 1 µs
Frequency Resolution	1 Hz (optional to 0.1 Hz)
Synthesis Architecture	Iterative, modular direct analog synthesis

Inputs and Outputs

External Reference Input Frequency	5 MHz or 10 MHz
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Amplitude and Level Control

Level Switching Speed	Sub-microsecond level correction
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Spectral Purity

Harmonics	<-25 dBc
Non-Harmonic Spurious	<-70 dBc (typical)
SSB Phase Noise @ 10 GHz (10 kHz offset)	-114 dBc/Hz
SSB Phase Noise @ 10 GHz (100 kHz offset)	-114 dBc/Hz

Physical Characteristics

Form Factor	19-inch rackmount
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RF Output

Output Impedance	50 Ω nominal
RF Output Connector	SMA female (rear panel)
RF Output Power	+10 dBm minimum (+13 dBm typical)

Environmental

Storage Temperature Range	-40 °C to +71 °C
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TECHNOLOGY

Direct Analog Synthesis

APPLICATIONS

Radar testing, ATE systems, electronic warfare simulation, frequency agile systems

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.