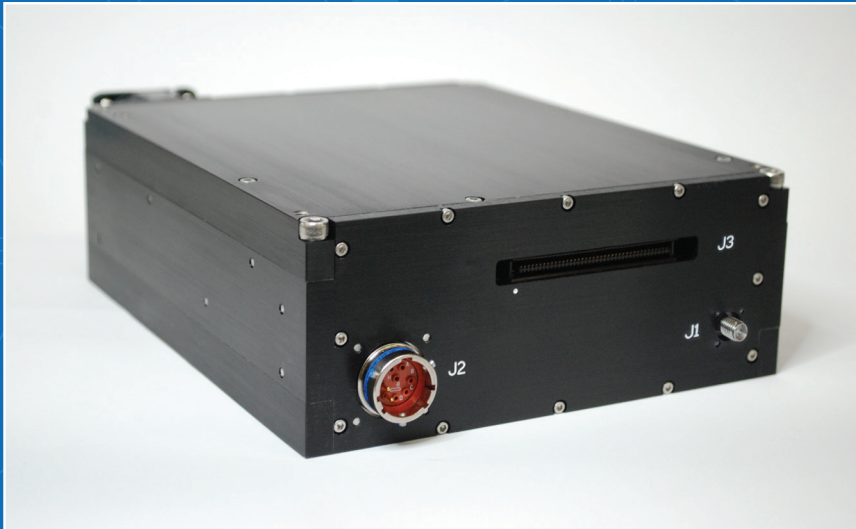


dB-9001 Instantaneous Frequency Measurement Unit



6 – 18 GHz
100 ns to CW



The dB-9001 is a custom-mounted Instantaneous Frequency Measurement (IFM) unit operating in the C, X and Ku-band frequency range providing highly accurate measurements at 100 nanoseconds (ns) to CW pulse width measurements. The IFM units measure frequency, as well as power level and pulse duration. The IFM units are packaged in a custom configuration with integral forced-air and conduction cooling.

Features

- Wideband IFM
- 6 to 18 GHz
- Pulse width 100 ns to CW
- High accuracy

Applications

- Electronic attack detection
- Airborne RF recorder
- Radars
- Electronic countermeasures (ECM)
- Electronic warfare (EW) threat simulation
- Test and measurement
- Antenna pattern and radar cross section measurements

dB-9001 IFM Specifications

Reliability by Design®

Electrical

Frequency Range Amplitude	6 to 18 GHz
Amplitude Measurement Range	-50 to 0 dBm
Duty Cycle	5%, max.
Pulse Width Measurement	100 ns to CW
Frequency Measurement Accuracy	Open Loop Mode: ± 9 MHz max., ± 4 MHz typical over the entire temperature range Closed Loop Mode: ± 1 MHz max., ± 0.2 MHz
Frequency Switching Speed	± 3 MHz Max, ± 1 MHz typical over the entire temperature range
Amplitude Measurement Accuracy	± 5 dB Max, ± 2 dB typical over the entire temperature Range
Pulse Width Measurement Accuracy	± 25 nsec
Nominal Power Consumption	70W

Mechanical

Connectors:	
Prime Power	MS27508E12F8P
RF Input	Type SMA (F)
Digital Input/Output	P50E-080P1-SR1-EA
Dimensions	9.0" (L) x 6.5" (W) x 2.5" (H)
Weight	8 lbs.
Cooling	Forced air with integral fan and conduction

Environmental

Operating Temperature	-20° C to +50° C, ambient
Operating Altitude	Up to 40,000 feet ASL
Humidity	Up to 95% RH non-condensing

Options

- Custom frequency bands and output power
- Different prime power input
- Custom frequency, amplitude measurement accuracy
- Custom pulse width measurement accuracy
- Customizable digital interface for control/communication

Specifications subject to change without notice.



About dB Control

Established in 1990, dB Control Corp., a subsidiary of the Electronic Technologies Group (ETG) of HEICO Corp., supplies mission-critical, often sole-source, products worldwide to military organizations, as well as to major defense contractors and commercial manufacturers. dB Control designs and manufactures reliable high-power TWT Amplifiers (TWTAs), microwave power modules (MPMs), transmitters and power supplies with modulators for radar, electronic countermeasures (ECM) and data link applications. The company's high-power amplifiers use solid state, as well as vacuum electron devices and cover the 1 to 50 GHz frequency range. The modularity of dB Control's designs enables rapid configuration of custom products for a variety of platforms, including ground-based and high-altitude military manned and unmanned aircraft. dB Control has an outstanding record of successfully repairing, refurbishing and replacing tightly packaged high-voltage transformers, assemblies and power supplies. The company offers specialized contract manufacturing, transformer winding and testing, full vacuum encapsulation, pressure cure, conformal coating and repair depot services from its modern 40,000 square foot facilities in Fremont, California. www.dBControl.com

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