avid SYSTEMS, INC

AVS-1010 Coherent Direct Digital Synthesizer

Description:

The AVS- 1010 sets a new standard for digital frequency synthesis. The AVS- 1010 is an FPGA based synthesizer capable of running at 4GHz and providing a continuous coherent output from 15 MHz to 1.5 GHz in ½ Hz increments with the extended frequency option. Switching speeds to any frequency in 55 ns with phase noise better than - 85 dBc/Hz @ 100 Hz offset with spurious of > 65 dBc

Applications:

- Anti- IED Jammer
- Frequency Hop Follower
- Microwave Synthesizers
- Electronic Warfare
- Electronic Counter Measures
- Digital RF Memory
- Radar Simulator
- Waveform Generation

Key Features:

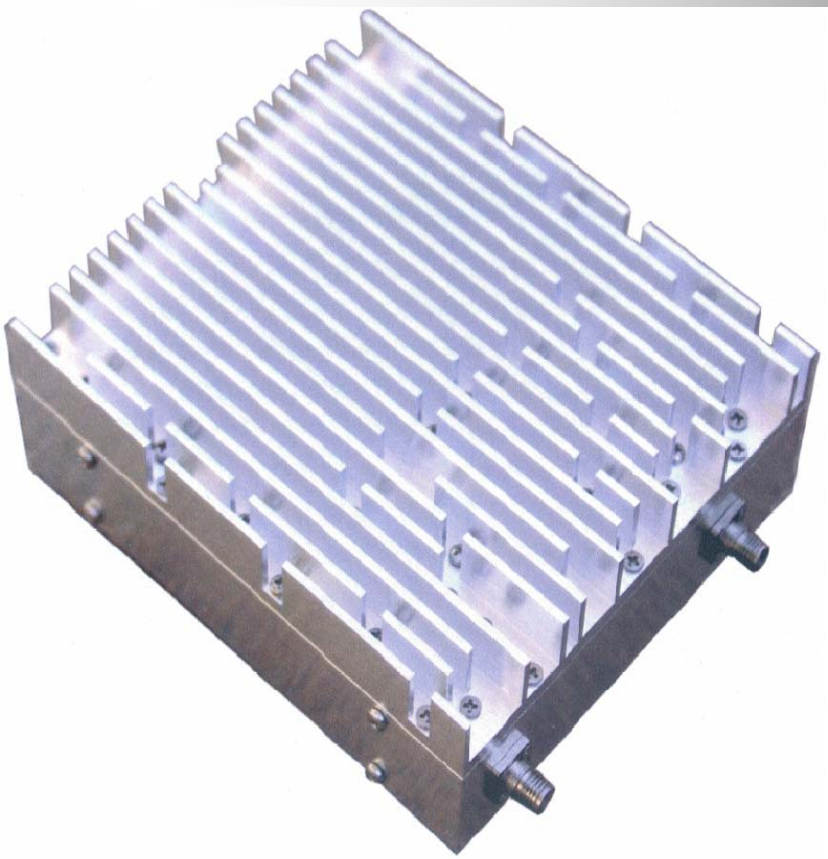
Frequency Range	15 MHz – 800 MHz
Extended Frequency Range	15 MHz – 1.5 GHz
Switching Speed	55 ns
Spurious Signal	> 65 dBc
Harmonic Distortion	54 dB
Output Power	+5 dBm +/- 1 dBm
Frequency Programming	BCD Code via 51 pin D
Power Connector	9 pin micro D
DDS Output	SMA
Clock Input	SMA
Power	+5V @1.5A + 15V @ 330mA
Dimensions	4.5” X 4.0” X 1”
Optional Modulation	AM, PM, FM, PSK, FSK

Avid Systems, Inc
2904 Back Acre Circle Ste. 101
Mount Airy, MD 21771

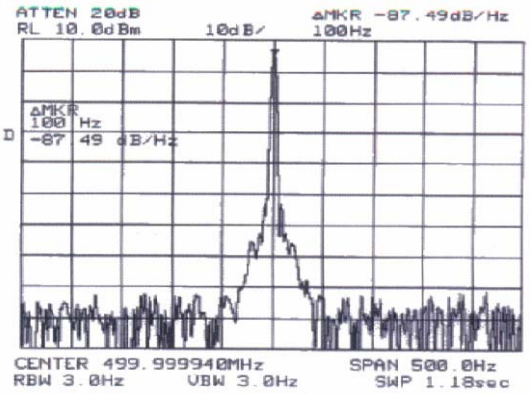
Phone: 301-703-8195
Fax: 301-703-8196
E-mail: info@avid-systems.com

avid SYSTEMS, INC

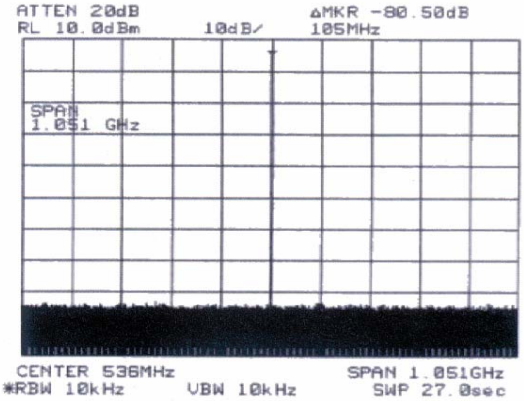
Performance Plots



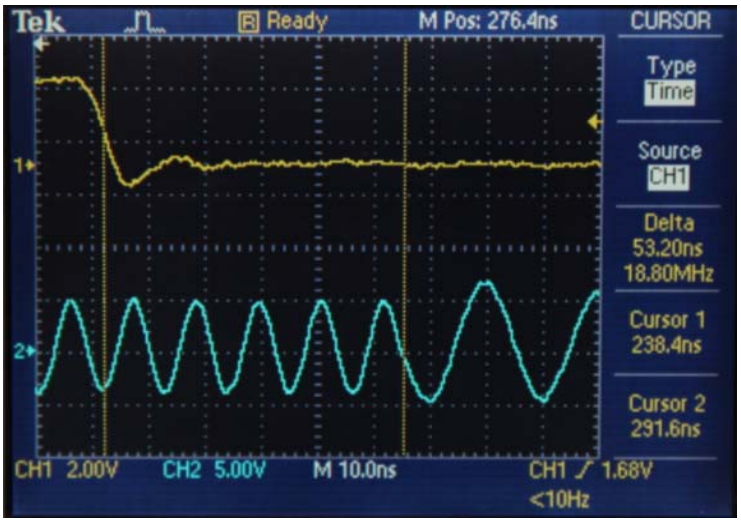
AVS-1010 High Speed FPGA Based DDS



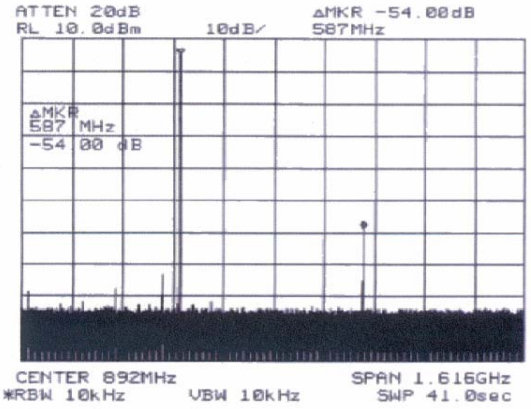
Excellent Phase Noise > 85 dBc/Hz @ 100 Hz Offset



Outstanding Spurious Performance > 65 dB



Switching Speed 55 ns



Harmonic Distortion 54 dB

Avid Systems, Inc
2904 Back Acre Circle Ste. 101
Mount Airy, MD 21771

Phone: 301-703-8195
Fax: 301-703-8196
E-mail: info@avid-systems.com