

MI-3120 Family of Synthesized Signal Sources

Requirements for testing are growing more complicated as companies strive for more productivity. MI Technologies' instruments, systems and software address the need for increased productivity in test and measurement applications.

Features

- 500 microsecond frequency switching typical
- Low phase noise with high power across the full frequency range
- Ethernet connectivity
- CW and step sweep modes

Description

MI Technologies' MI-3121 and MI-3122 Synthesized Signal Sources provides a fast, accurate and economical signal generation solution for a wide range of test and measurement applications. The source is designed to be used in test and measurement situations where remote RF and microwave frequency is required, making it ideal for antenna, radome and other microwave measurement applications. By providing low phase noise, high output power across the full frequency range and fast frequency switching simultaneously, the MI-3121 synthesizer offers a tremendous value and at a competitive price. The combination of features makes the MI-3122 a 'must have' for many R&D as well as manufacturing environments.

The MI-3121 and MI-3122 are rack mountable units with rack ears and front panel RF output.

The signal sources are offered in two frequency range configurations:

Model	Frequency
MI-3121	0.01 to 20 GHz
MI-3122	2.0 to 20 GHz



MI-3121 Synthesized Signal Source

Benefits

- Reduced test time with more accurate results
- Easy to use front interface but well suited for ATE application
- Easily integrates with MI-1797 Microwave Receiver
- Operates with MI Technologies' Automated Systems
- Speeds tests and measurement processes with built in ability to store multiple lists of frequencies and power levels
- Able to easily download large lists of frequencies and power levels to the synthesizer via a host computer with a provided interface
- Remotely programmable interfaces include LAN, GPIB, RS-232 and USB
- Minimal number of user screens for quick and easy set up
- Recognizable icons, drop down menus for quick access to commands

MI-3120 Family of Synthesized Signal Sources - *continued*

Specifications	
Frequency Range	MI-3121: 0.01 to 20.0 GHz MI-3122: 2.0 to 20.0 GHz
Max RF Power Output	+17 dBm
Frequency Switching Time	500 microseconds typical
Output Accuracy	± 1.0 dB
Frequency Resolution	.001 Hz
Frequency Stability vs. Temperature	$2 \times 10^{-8}/\text{deg C}$
Level Drift	<0.04 dB/deg C
Spectral Purity	
Harmonics	10MHz - 100MHz : -40dBc 0.1 - 20GHz : -50dBc
Non-harmonic	-40dBc
Sub-harmonics	-30dBc (typical)
Remote Interface	10/100 BaseT Ethernet, GPIB, USB, RS-232
Output Impedance	50 Ohms
RF Output Connector	K Female
Operating Temperature	0-50 deg C
Environmental	Compliant with MILPRF-28800F Class 3
Dimensions	5.25" H x 17"W x 17.75"D 133mmH x 429mmW x 450mmD
Weight	44 lbs, 20 kg
Power Requirements	85-264 VAC, 47-440 Hz, 250VA max.

All products and their specifications subject to change without notice

OPTIONS

RHD - Removable Hard Drive available

E - Export Version

The export of the equipment or components thereof, described herein, or the export of the technical data associated with such items, may require the advance approval of the U.S. Government.

DS-3121,3122-1.0/08/09



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