

Eastern OptX Series 5000 Doppler Generator



Features

- Available for L, S, C, X, and Ku bands (0.5 to 18 GHz)
- 0 to 3 MHz Doppler Shift
- Tethered MS Surface Control
- Stable and repeatable performance

Applications

- Moving target generation.
- Opening, closing, and lateral targets.
- Radio network testing.
- Available as built-in delay line option, scenario generator.

Description

Eastern OptX introduces moving target generators covering radar frequencies from 1 – 18 GHz. These compact systems provide target generation with Doppler from 0 to 3 MHz, and allows the user to set target and radar source speeds and directions. Systems may be operated remotely using wireless control with scenario generator features including flight path replication, moving source and targets, and multiple target options. Data may be entered in multiple formats including target and radar speed and direction, start-stop LONG-LAT and speeds, and directly with pre-programmed map placements. All Series 5000 Doppler Generators may be used together with the Eastern OptX Series 3000 delay lines to create both Doppler and step-wise target and source movements. This combination creates a complete moving target replication. Please visit Eastern-OptX.com for more information.

Eastern OptX, Inc. A Veteran Owned Small Business

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www.eastern-optx.com, sales@eastern-optx.com

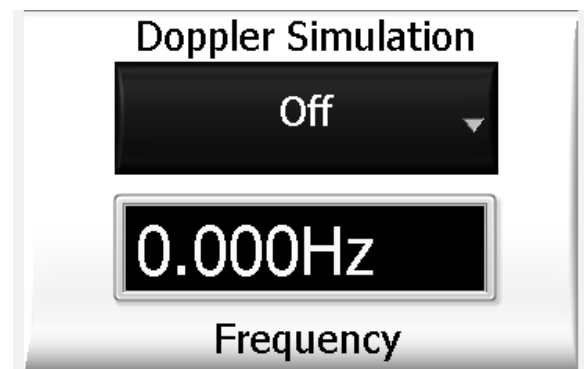
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Specifications



Parameter	Specification	Notes
Doppler Range	0 to 3 MHz	Other ranges available
Slew Rate	100 ms	Jump time to any freq.
Typical RF Loss	12 dB	
Input Return Loss	15 dB	Minimum
Target Direction	Opening, Closing, and Lat- eral	Programmable
1 dB Input Compression	-15 dBm	Minimum
Noise Figure	12 dB Typical	Lower NF optional
Step Size	0.5 Hz	Depending on max freq.
RF Connector	SMA (Jack)	Other Types Available
Dimensions	3" x 12" x 14"	
Control	MS Surface	Supplied with system (USB PC control capable)
Modes	Synchronous, free running, phase inverting, blanking	External signal required

Part Number	Primary Band (GHz) (35 dB typical side-band suppression)	Broad Band (GHz) (20 dB typical side-band suppression)
5000-1	1 to 2	0.5 to 2.5
5000-2	2 to 4	1.5 to 5
5000-3	4 to 8	3 to 10
5000-4	8 to 12	6 to 14
5000-5	12 to 18	6 to 19
5000-7	Use defined center frequency	



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