

# Broadband RF/Microwave/Signal Generator MG3690C

## MG3690C 2 GHz to 20, 40, 50, and 67 GHz

The MG3690C series of broadband signal generators covers audio, HF, VHF, UHF, RF, and microwave frequencies from 0.1 Hz to 67 GHz (operational to 70 GHz) in single coaxial output and up to 500 GHz with external multipliers. Easy to operate either through intuitive front panel controls or remotely via GPIB or Ethernet connectivity, the MG3690C series is an ideal signal source for both RF and microwave requirements, and fully configurable for simple to high-performance applications.

The MG3690C series offers three levels of SSB phase noise performance as well as a full suite of modulation capabilities. Modulation capabilities include AM, FM, phase, and pulse to address simple to complex signal simulation requirements. The MG3690C product offers a very comprehensive emulation and test parameters for narrow pulse radars.

The MG3690C series can fit into a configuration for today's applications and budget while maintaining value for future upgrades. The MG3690C series is an ideal signal source for design and manufacturing test of components and systems for a wide variety of industries — including wireless communications, aerospace and defense, and consumer and computer electronics. The highly configurable platform enables users to tailor their signal generator to their application.

**Now RoHS compliant**

## Key Features and Benefits

- Industry-best broad frequency coverage allows generation of baseband, IF, and RF signals in one box
- Fast switching speed reduces test time
- Full analog modulation provides analog signal simulation capability
- High output power eliminates the need for external amplification



RF/Microwave/Millimeter Signal Generator MG3690C



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## Key Specifications

Model/Option No.	Frequency Coverage	Output Connector
MG3692C	2 GHz to 20 GHz	K(f) 2.92 mm
MG3694C	2 GHz to 40 GHz	K(f) 2.92 mm
MG3695C	2 GHz to 50 GHz	V(f) 1.85 mm
MG3697C	2 GHz to 67 GHz	V(f) 1.85 mm
MG3690C/4	8 MHz to 2.2 GHz	Model No. Dependent
MG3690C/5	8 MHz to 2 GHz	Model No. Dependent
MG3690C/22	0.1 Hz to 10 MHz	Model No. Dependent

## Phase Noise and Tracking

Model Option No.	Description
MG3690C/3	Ultra Low Phase Noise
MG3690C/3X	Premium Phase Noise
MG3690C/36	Ultra-Stable Phase Noise Tracking

## Analog Modulation\*

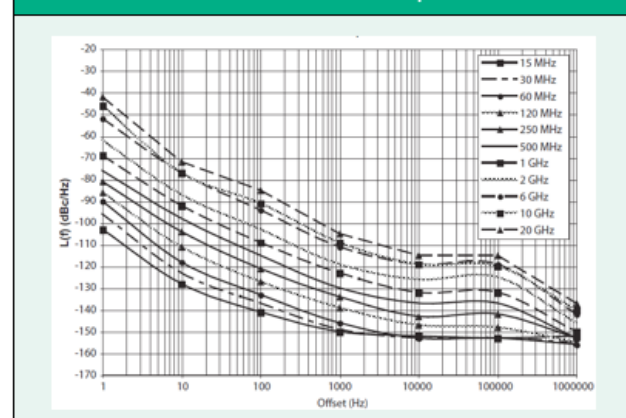
Model Option No.	Description
MG3690C/12	Frequency and Phase Modulation (external)
MG3690C/14	Amplitude Modulation (external)
MG3690C/26X	Pulse Modulation (external)
MG3690C/27	Internal LF and Pulse generator. Provides internal modulation. Requires options 12, 14 or 26X

## Stable Time Base and Power

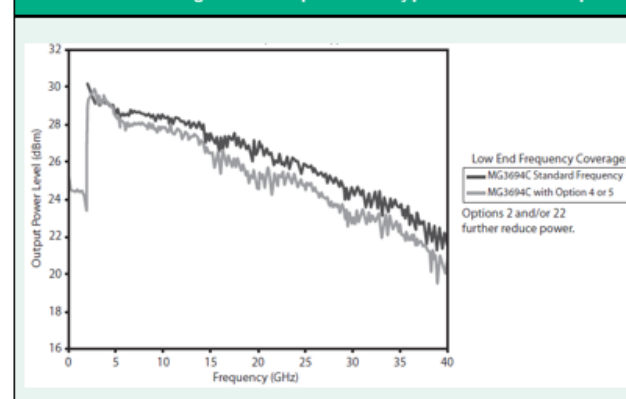
Model Option No.	Description
MG3690C/16	High stability Time Base
MG3690C/15X	High Power

\*More options available. Please refer to the Technical Datasheet.

Measured SSB Phase Noise with Options 3X and 4



MG3694C with High Power option and typical max leveled power



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