Quality&**Precise**

MAXWELLON MX199X

1MHz to 5.8GHz

EMC Test High-Power Amplifier

2023

Maxwellon

MX199X EMC Test High-Power Amplifier utilizes GaN power transistors and wideband power matching synthesis technology. The instrument features a single knob for controlling power output, and the front panel includes a 3.5-inch high-brightness LCD screen indicating the output power value. Due to the implementation of Automatic Level Control (ALC) technology, the output power remains nearly constant even when there are variations in the input power. This ALC technology also contributes to a very flat frequency response over a frequency range greater than multiple octaves. Multiple fans on the rear panel ensure continuous and reliable operation of the instrument.

Key Feature

- **GaN Power Transistors:** The use of Gallium Nitride (GaN) power transistors enhances the amplifier's performance, providing efficient and high-power amplification.
- **Wideband Power Matching Synthesis Technology:** This technology allows the amplifier to cover a broad frequency range while maintaining optimal power matching, ensuring consistent performance across different frequencies.
- **Single-Knob Control:** The instrument is designed with user-friendly controls, including a single knob for adjusting power output. This simplifies operation and enhances ease of use.
- **ALC Technology**: Automatic Level Control (ALC) technology ensures that the output power remains nearly constant, even in the presence of variations in input power. This contributes to stable and reliable performance.
- **High-Brightness LCD Screen**: The front panel features a 3.5-inch high-brightness LCD screen, providing clear and easy-to-read information about the output power.
- **Flat Frequency Response:** The ALC technology contributes to a very flat amplitude-frequency response over a wide frequency range, making the amplifier suitable for applications that span multiple octaves.
- **Reliable Cooling System**: The presence of multiple fans on the rear panel ensures effective cooling, allowing the amplifier to operate continuously and reliably.
- **Versatile Applications:** The amplifier is designed for applications in Electromagnetic Compatibility (EMC) testing, where its wide frequency coverage and stable performance are critical.

Specification

Model	Min	Max	Gain (dB)	Output Power (W)	Gain Flatness (±dB)	VSWR	Connector	Operating Voltage
MX1990B-150W	1MHz	30MHz	52	150W	2.5	2.5	SMA	AC 220V
MX1990C-700W	40MHz	43MHz	50	700W	1.0	2.0	SMA	AC 220V
MX1991A-200W	915MHz	915MHz	50	200W	0.5	2.0	SMA	AC 220V
MX1990A-100W	100kHz	100MHz	50	100W	3.0	2.5	SMA	AC 220V
MX1991B-100W	20MHz	1GHz	50	100W	2.5	2.5	SMA	AC 220V
MX1992A-200W	2.45GHz	2.45GHz	50	200W	0.5	2.5	SMA	AC 220V
MX1992B-350W	860MHz	960MHz	50	350W	1.5	2.5	SMA	AC 220V
MX1993A-100W	1805MHz	2170MHz	50	100W	1.5	2.5	SMA	AC 220V
MX1993B-400W	2600MHz	2700MHz	50	400W	1.5	2.5	SMA	AC 220V
MX1993C-100W	5.8GHz	5.8GHz	50	100W	0.5	2.5	SMA	AC 220V

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