



MAXWELLON MX196X

100kHz to 40GHz

EMC Test Low-Noise Amplifier
2023

The MX196X EMC Test Low-Noise Amplifier cover a frequency range from 100kHz to 40 GHz. They utilize thin-film hybrid integration technology, offering features such as broad frequency bandwidth, low noise, and excellent consistency. Additionally, these amplifiers have the advantages of compact size, lightweight design, affordability, short delivery cycles, and high performance.

■ Key Feature

- **Frequency Range:** 100kHz to 40 GHz - The MX196X series is designed to operate across a wide frequency spectrum, making it versatile for various applications.
- **Thin-Film Hybrid Integration:** This technology ensures a compact design, low noise, and good consistency in performance.
- **Compact and Lightweight:** The amplifiers are characterized by their small physical footprint and lightweight construction, enhancing their suitability for different applications.
- **Affordability:** The MX196X series provides cost-effective solutions, making it accessible for a range of applications without compromising on performance.
- **Short Delivery Cycles:** The amplifiers offer quick turnaround times, which can be crucial for projects with tight schedules.
- **High Performance:** Despite their small size and affordability, the MX196X series maintains high performance, meeting the requirements of applications in radar, electronic warfare, communication systems, and more.
- **Versatile Applications:** Suitable for ground-based, shipborne, airborne, and other equipment requirements, the MX196X series is a versatile choice for radar systems, electronic warfare applications, communication systems, and more.



■ Specification

Model	Min	Max	Gain (dB)	P1 (dBm)	NF (dB)	Gain Flatness (±dB)	VSWR	Operating Voltage	Connector	Dimensions (mm)
MX-1960	100kHz	2.5GHz	30	20	3.5	2.0	2.0	220V	SMA-K	163*120*45
MX-1961	100MHz	3GHz	35	17	2.5	1.5	1.5	220V	SMA-K	163*120*45
MX-1962	100MHz	4GHz	38	20	3.0	2.0	2.0	220V	SMA-K	163*120*45
MX-1963	100MHz	6GHz	38	20	2.5	2.0	2.0	220V	SMA-K	163*120*45
MX-1964	100MHz	13GHz	30	16	2.5	2.0	2.0	220V	SMA-K	163*120*45
MX-1965	1GHz	18GHz	27	13	3.0	1.0	2.0	220V	SMA-K	163*120*45
MX-1966	50MHz	20GHz	28	15	3.0	2.0	2.0	220V	SMA-K	163*120*45
MX-1967	18GHz	26.5GHz	35	12	3.0	2.0	2.0	220V	SMA-K	163*120*45
MX-1968	26.5GHz	40GHz	30	13	5.0	1.5	2.0	220V	SMA-K	163*120*45
MX-1969	50MHz	40GHz	30	12	5.0	2.5	2.0	220V	SMA-K	163*120*45



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