Quality&**Precise**

MAXWELLON MXLA

5kHz to 230GHz

Low-Noise Amplifier (LNA)

2023

Maxwellon

The MXLA series amplifiers cover a frequency range from 5kHz to 230 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:** 5kHz to 230 GHz - The MXLA 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 MXLA 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 MXLA 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 MXLA 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)
MXLA-000080M13	5KHz	80MHz	13	20	5.0	1.5	2.0	12V	SMA-K	35*18.6*10.2
MXLA-000050M20	100KHz	50MHz	20	10	3.0	1.5	1.5	12V	SMA-K	35*18.6*10.2
MXLA-000025G30	100kHz	2.5GHz	30	20	3.5	2.0	2.0	12V	SMA-K	83*35*16.5
MXLA-000200G27	100KHz	20GHz	27	14	3.0	2.5	2.0	12V	SMA-K	45*43*16
MXLA-000500G30	10MHz	50GHz	30	23	5.0	2.5	2.5	7V	SMA-K	70*45*18
MXLA-002030G30	20MHz	3GHz	30	17	2.5	1.5	1.5	12V	SMA-K	83*35*16.5
MXLA-000200G28	50MHz	20GHz	28	16	3.0	2.0	2.0	12V	SMA-K	45*43*16
MXLA-000220G24	50MHZ	22GHZ	24	24	3.0	2.5	2.0	12V	SMA-K	45*43*16
MXLA-000400G30	50MHz	40GHz	30	12	5.0	3.5	3.0	12V	SMA-K	38*32*16
MXLA-001010G27	100MHz	1GHz	27	15	3.0	2.5	2.0	12V	SMA-K	35*18.6*10.2
MXLA-001030G35	100MHz	3GHz	32	20	2.5	2.0	2.0	12V	SMA-K	83*35*16.5
MXLA-001040G38	100MHz	4GHz	38	20	3.0	2.0	2.0	12V	SMA-K	35*18.6*10.2
MXLA-001060G40	100MHz	6GHz	40	20	2.5	2.0	2.0	12V	SMA-K	35*18.6*10.2
MXLA-001100G30	100MHz	10GHz	30	15	2.5	2.0	2.0	12V	SMA-K	35*18.6*10.2
MXLA-005260G27	50MHz	26.5GHz	27	10	3.0	2.5	2.0	12V	SMA-K	35*18.6*10.2
MXLA-001130G30	100MHz	13GHz	30	16	2.5	2.5	2.0	12V	SMA-K	35*18.6*10.2
MXLA-000180G27	100MHz	18GHz	27	13	3.0	2.0	2.0	5V	SMA-K	30*20*10
MXLA-005200M15	5MHz	200MHz	15	10	3.0	1.0	1.5	12V	SMA-K	35*18.6*10.2
MXLA-005200M25	5MHz	200MHz	25	10	3.0	1.0	1.5	12V	SMA-K	35*18.6*10.2
MXLA-003012G16	300MHz	1.2GHz	16	15	0.8	1.0	1.5	12V	SMA-K	35*18.6*10.2

Model	Min	Max	Gain (dB)	P1 (dBm)	NF (dB)	Gain Flatness (±dB)	VSWR	Operating Voltage	Connector	Dimensions (mm)
MXLA-400470M13	400MHz	470MHz	13	10	1.5	1.0	2.0	12V	SMA-K	35*18.6*10.2
MXLA-400470M23	400MHZ	470MHz	20	23	2.0	1.0	1.5	12V	SMA-K	45*43*16
MXLA-005030G45	500MHz	3GHz	45	7	1.5	1.0	1.5	12V	SMA-K	35*18.6*10.2
MXLA-009018G37	900MHz	1.8GHz	37	23	1.5	1.5	1.5	12V	SMA-K	70*45*18
MXLA-010180G28	1GHz	18GHz	27	13	3.0	2.5	2.0	12V	SMA-K	38*32*16
MXLA-010180G30	1GHz	18GHz	30	13	3.0	2.5	2.0	12V	SMA-K	38*32*16
MXLA-010200G26	1GHz	20GHz	26	14	2.5	3.0	2.0	12V	SMA-K	45*43*16
MXLA-020060G42	2GHz	6GHz	42	20	3.0	2.0	2.0	12V	SMA-K	45*43*16
MXLA-060120G35	6GHz	12GHz	35	13	2.0	1.5	2.0	12V	SMA-K	35*18.6*10.2
MXLA-080160G35	8GHz	16GHz	35	13	2.0	1.5	2.0	12V	SMA-K	35*18.6*10.2
MXLA-060180G35	6GHz	18GHz	35	13	2.5	2.0	2.5	12V	SMA-K	35*18.6*10.2
MXLA-200400G40	20GHz	40GHz	40	12	3.0	2.5	2.0	12V	SMA-K	45*43*16
MXLA-170320G35	17GHz	32GHz	27	10	3.0	2.5	2.0	12V	SMA-K	38*32*16
MXLA-180265G28	18GHz	26.5GHz	28	12	3.0	2.5	2.5	12V	SMA-K	38*32*16
MXLA-265400G30	26.5GHz	40GHz	30	13	5.0	2.5	2.5	12V	SMA-K	38*32*16
MXLA-010180G40	1GHz	18GHz	40	13	3	2.5	1.5	12V	SMA-K	46*36*14
MXLA-010200G40	1GHz	20GHz	40	13	3	2.5	1.5	12V	SMA-K	46*36*14
MXLA-020400G40	2GHz	40GHz	40	10	4	2.5	1.5	12V	SMA-K	46*36*14
MXLA-005060G40	500MHz	6GHz	40	20	2	2.0	1.5	5V	SMA-K	46*36*14
MXLA-180400G35	18GHZ	40GHZ	35	10	4	2.5	1.5	12V	SMA-K	46*36*14
MXLA-000100G30	9KHz	1GHZ	30	15	2	2	1.5	5V	SMA-K	46*36*14
MXLA-000430G23	50KHz	43GHz	23	13	4	2.0	2.0	5V	2.92mm	30*30*14
MXLA-00043G35	10MHz	43GHz	35	15	4	2.0	1.5	5V	2.92mm	30*30*14
MXLA-000500G23	10MHz	50GHz	23	13	4.0	2.0	1.5	5V	2.4mm	30*30*14
MXLA-000500G35	10MHz	50GHz	35	13	4.0	2.0	1.5	5V	2.4mm	30*30*14
MXLA-020500G38	2GHz	50GHZ	38	10	5.0	2.0	1.5	5V	2.4mm	30*30*14
MXLA-400670G35	40GHz	67GHz	35	14	6.0	2.0	2.0	5V	1.85mm	30*30*14
MXLA-550660G35	55GHz	66GHz	35	8	6.0	2.0	2.0	5V	1.85mm	30*30*14
MXLA-500750G40	50GHz	75GHz	40	5	3.5	2.0	2.0	5V	WR-15	50*25*18
MXLA-600900G40	60GHz	90GHz	40	8	5	2.0	3.0	5V	WR-12	50*25*18
MXLA-750110G35	75GHz	110Ghz	35	1	4	3.0	3.0	5V	WR-10	50*25*18
MXLA-110170G18	110GHz	170GHz	18	-3	6	2.0	3.0	5V	WR-06	50*25*18
MXLA-140200G16	140GHz	200GHz	16	-3	6	2.0	3.0	5V	WR-05	50*25*18
MXLA-195230G20	195GHz	230GHz	20	-3	8	2.0	3.0	5V	WR-4.3	50*25*18

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