



MAXWELLON MXPA

DC to 100GHz
Power Amplifier
2023

The MXPA series power amplifiers cover a frequency range from DC to 100GHz($p_1 > 30\text{dBm}$). 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:** DC to 100 GHz($p_1 > 30\text{dBm}$) - The MXPA 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 MXPA 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 MXPA 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 MXPA 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 ($\pm$ dB)	VSWR	Operating Voltage	Connector	Dimensions (mm)
MXPA-000050M03	DC	50MHz	40	35(3W)	-	0.5	2.0	24V	SMA-K	80*70*25
MXPA-000010M10	10KHz	10MHz	49	40(10W)	-	1.0	2.0	24V	SMA-K	80*70*25
MXPA-003030M30	150KHz	30MHz	49	47(30W)	-	1.0	2.5	24V	SMA-K	80*70*25
MXPA-000500M02	500KHz	500MHz	35	33(2W)	-	2.0	1.5	24V	SMA-K	80*70*25
MXPA-000010G10	1MHz	1GHz	40	40(10W)	-	2.5	2.5	24V	SMA-K	80*70*25
MXPA-000025G20	20MHz	2.5GHz	50	43(20W)	-	2.5	2.5	48V	SMA-K	180*90*25
MXPA-010500M02	10MHz	500MHz	20	33(2W)	-	0.5	2.0	24V	SMA-K	80*70*25
MXPA-020520M50	20MHz	512MHz	40	47(50W)	-	2.5	2.0	28V	SMA-K	180*90*25
MXPA-000010G20	20MHz	1GHz	40	43(20W)	-	2.0	2.0	28V	SMA-K	180*90*25
MXPA-000010G04	20MHz	1GHz	40	36(4W)	-	2.0	2.0	28V	SMA-K	80*70*25
MXPA-002030G04	200MHz	3GHz	36	36(4W)	-	2.0	2.5	24V	SMA-K	70*45*18
MXPA-008025G01	800MHz	2.5GHz	26	30(1W)	-	1.0	2.0	15V	SMA-K	70*45*18
MXPA-008030G20	800MHz	3GHz	50	43(20W)	-	2.0	2.5	48V	SMA-K	180*90*25
MXPA-030060G04	3GHz	6GHz	36	36(4W)	-	2.0	2.5	24V	SMA-K	70*45*18
MXPA-010040G01	1GHz	4GHz	32	32(1.5W)	-	2.0	2.0	24V	SMA-K	70*45*18
MXPA-400900M02	400MHz	900MHz	25	33(2W)	-	1.0	2.0	12V	SMA-K	70*45*18
MXPA-040800M20	40MHz	800MHz	40	44(25W)	-	2.5	2.0	48V	SMA-K	180*90*25
MXPA-420450M50	420MHz	450MHz	47	47(50W)	-	1.0	2.0	48V	SMA-K	180*90*25
MXPA-400470M50	400MHz	470MHz	47	47(50W)	-	1.0	2.0	48V	SMA-K	180*90*25
MXPA-500700M02	500MHz	700MHz	5	33(2W)	-	1.0	2.0	5V	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)
MXPA-330400M05	300MHz	400MHz	37	37(5W)	-	1.0	2.0	12V	SMA-K	70*45*18
MXPA-600800M05	600MHz	800MHz	37	37(5W)	-	1.0	2.0	24V	SMA-K	70*45*18
MXPA-005030G01	500MHz	3GHz	30	30(1W)	-	1.0	2.0	24V	SMA-K	70*45*18
MXPA-005060G01	500MHz	6GHz	28	30(1W)	-	2.0	2.0	24V	SMA-K	70*45*18
MXPA-009025G02	900MHz	2.6GHz	27	33(2W)	-	1.0	2.0	24V	SMA-K	70*45*18
MXPA-890960M06	800MHz	900MHz	30	37(5W)	-	1.0	2.0	24V	SMA-K	70*45*18
MXPA-020080G03	2GHz	8GHz	30	34(3W)	-	1.0	2.0	24V	SMA-K	70*45*18
MXPA-088010G01	8.8GHz	10.1GHz	20	30(1W)	-	1.5	2.0	24V	SMA-K	70*45*18
MXPA-080120G03	8GHz	12GHz	33	34(2.5W)	-	1.5	2.0	24V	SMA-K	70*45*18
MXPA-085115G04	8.5GHz	11GHz	33	36(4W)	-	1.5	2.0	24V	SMA-K	70*45*18
MXPA-145155G01	14.5GHz	15.5GHz	30	33(2W)	-	1.5	2.0	24V	SMA-K	70*45*18
MXPA-060180G01	6GHz	18GHz	25	30(1W)	-	1.5	2.0	24V	SMA-K	70*45*18
MXPA-060180G03	6GHz	18GHz	30	34(2.5W)	-	1.5	2.0	15V	SMA-K	70*45*18
MXPA-180265G01	18GHz	26.5GHz	25	30(1W)	-	1.5	2.0	12V	SMA-K	70*45*18
MXPA-265330G01	26.5GHz	33GHz	25	28(1W)	-	1.5	2.0	12V	SMA-K	70*45*18
MXPA-330400G01	33GHz	40GHz	25	28(1W)	-	1.5	2.0	12V	SMA-K	70*45*18
MXPA-000220G01	10GHz	22GHz	30	30	4	2.0	1.5	16V	SMA	60*30*10
MXPA-180400G01	18GHz	40GHz	33	30	5	2.0	1.5	12V	2.92mm	60*30*10
MXPA-240300G03	24GHz	30GHz	40	33	5	2.0	2.0	12v	2.92mm	60*30*10
MXPA-240300G03	33GHz	40GHz	40	35	6	2.0	2.0	12v	2.92mm	60*30*10
MXPA-400670G32	40GHz	67GHz	39	32	5	2.5	2.0	18V	1.85mm	60*45*15
MXPA-600900G25	60GHz	90GHz	20	25	5	2.0	2.0	15v	WR12	60*45*15
MXPA-880100G02	88GHz	100GHz	30	30	6	2.0	2.0	15V	WR- 10	60*45*15



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