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M/A-COM, Inc.
1011 Pawtucket Blvd.
Lowell, MA 01853-3295

North America
Tel: 800.366.2266
Fax: 978.442.4001

Europe
Tel: 44.1908.574.200
Fax: 44.1908.574.300

Asia/Pacific
Tel: 81.44.844.8296
Fax: 81.44.844.8298

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Power Amplifiers
Wideband Amplifiers
Attenuators
Switches
Integrated TTL
Phase Shifters
Low Noise Amplifiers
Integrated Limiters



Aerospace & Defense IC Products Product Selection Guide

PACKAGED PRODUCTS



Part Number	Frequency (GHz)	PSAT (dBm)	P1dB (dBm)	TOI (dB)	Gain (dB)	Noise Figure (dB)	Package
Power Amplifiers (1.5W or greater)							
MAAPGM0035	2.5 – 5.5	32	31	42	17	–	Ceramic, flange-mounted
MAAPGM0060	5.0 – 6.5	37	36	–	18	–	Ceramic, flange-mounted
MAAPGM0021	5.0 – 8.5	33	32	40	16	–	Ceramic, flange-mounted
MAAPGM0019	9.8 – 13	32	31	38	18	–	Ceramic, flange-mounted
MAAPGM0071	13 – 15.5	32	31	37	28	–	TBD
Medium Power Amplifiers (less than 1.5W)							
MAAPGM0036	1.2 – 3.2	31	30	40	20	–	Ceramic, flange-mounted
MAAPGM0027	2 – 4	30	29	37	22	10	5x5mm PQFN
MAAPGM0029	3.6 – 6.5	31	30	42	19	7	Ceramic, flange-mounted
MAAPGM0030	5 – 9	30	29	38	14	8	Ceramic, flange-mounted
MAAPGM0038	8 – 12	31	30	40	19	–	Ceramic, flange-mounted
MAAPGM0034	8 – 12.5	28	26	33	15	8	Ceramic, flange-mounted
MAAPGM0040	11 – 15	27	26	33	20	8	Ceramic, flange-mounted
MAAPGM0041	11.5 – 15	31	30	35	19	6.5	Ceramic, flange-mounted
Distributed Amplifiers							
MAAMGM0002	1 – 18	21	20	31	9	4.5	5x5mm PQFN
Control Devices							
MAATGM0001	DC – 6	–	26 (Input)	36 (Input)	–3.5	–	5x5mm PQFN
MAPCGM0001	1 – 1.9	–	27 (Input)	37 (Input)	–5.3	–	6x6mm PQFN
MAPCGM0003	2.3 – 4.1	–	23 (Input)	36 (Input)	–5.7	–	6x6mm PQFN
MAPCGM0002	3.5 – 6	–	26 (Input)	32 (Input)	–6.5	–	6x6mm PQFN
MAPCGM0005	7 – 12	–	23 (Input)	34 (Input)	–11	–	5x5mm PQFN

DIE PRODUCTS

Part Number	Frequency (GHz)	Bias (V)	Current (mA)	PSAT (dBm)	P1dB (dBm)	TOI (dB)	Gain (dB)	Noise Figure (dB)
Power Amplifiers (1.5W or greater)								
MAAPGM0035-DIE	2.5 – 5.5	8/-2	850	32	31	42	17	7
MAAPGM0021-DIE	4.5 – 9	8/-2	750	33	31	41	17	9
MAAPGM0025-DIE	5.5 – 7.0	8/-2	2500	38	36	43.3	17.5	5.25
MAAPGM0024-DIE	7.5 – 10.5	8/-2	2500	38	37	–	26	–
MA08509D	8 – 11	10/-2	4500	40	–	–	22	10
MAAPGM0019-DIE	9.5 – 13	8/-2	1200	32	31	38	19	10
MAAPGM0016-DIE	11.5 – 15	8/-2	3000	37	36	43	16	10
MAAPGM0018-DIE	12 – 15.5	8/-2	1200	33	32	39	18	10
MAAPGM0043-DIE	13.5 – 15	8/-2	1000	32	31	37	17	7
MAAPGM0045-DIE	11.5 – 15	10/-1.8	1000	33	31	37	19	10
Medium Power Amplifiers (Less than 1.5W)								
MAAPGM0026-DIE	0.8 – 3.3	8/-2	300	28	27	36	20	6
MAAPGM0036-DIE	1.2 – 3.2	8/-2	700	31	30	40	20	5
MAAPGM0027-DIE	2.4 – 4	8/-2	350	30	29	37	22	10
MAAPGM0028-DIE	2 – 8	8/-2	450	28	26	35	14	10
MAAPGM0053-DIE	2 – 18	8/-5	300	27	–	37	7	–
MAAPGM0057-DIE	2 – 13	8/-2	800	31	30	40	7	8
MAAPGM0052-DIE	4 – 19	8/-5	600	26	25	–	13	6

DIE PRODUCTS



Part Number	Frequency (GHz)	Bias (V)	Current (mA)	PSAT (dBm)	P1dB (dBm)	TOI (dB)	Gain (dB)	Noise Figure (dB)
Medium Power Amplifiers (Less than 1.5W)								
MAAPGM0022-DIE	3 – 6	8/-2	900	31	31	43	17	6
MAAPGM0029-DIE	3.5 – 6.5	8/-2	400	31	30	42	20	7
MAAPGM0030-DIE	5 – 9	8/-2	400	30	29	38	17	8
MAAPGM0037-DIE	6.5 – 13	8/-1.8	500	30	29	37	13	8
MAAPGM0051-DIE	7.5 – 13	10/-2	400	31	30	37	15	9
MAAPGM0038-DIE	7.5 – 13.5	8/-2	1100	31	29	38	19	8
MAAPGM0034-DIE	8 – 12.5	10/-2	200	28	26	33	15	8
MAAPGM0033-DIE	9.5 – 11	10/-2	400	30	29	35	14	6
MAAPGM0040-DIE	10.5 – 15.5	8/-2	250	27	25	33	20	8
MAAPGM0041-DIE	11 – 15	8/-2	600	31	30	35	20	6.5
MAAPGM0042-DIE	11.5 – 16	8/-2	600	31	28	35	20	6.5
MAAPGM0044-DIE	11.5 – 17	8/-2	300	27	26	36	20	10
MAAPGM0005-DIE	12 – 19	7	200	23	22	27	15	15
MAAPGM0047-DIE	16 – 19.5	8/-2	350	26	24	27	15	12
MAAPGM0046-DIE	15.5 – 18	8/-1.8	350	26	25	32	15	–
MAAPGM0049-DIE	24.5 – 29	6/-1.6	600	27	26	35	13	–
MAAPGM0012-DIE	31.5 – 36	5/-1.2	200	17	16	–	16	–
MAAPGM0013-DIE	32 – 36	6/-1.2	700	23	22	–	13	–
Low Noise Amplifiers								
MAALGM0006-DIE	1.5 – 6.5	5/-0.5	70	17.5	16	–	17	3.5
MAALGM0003-DIE	5 – 8	5/-0.6	50	–	13	25	14	2.1
MAALGM0002-DIE	8 – 12	3/-0.6	55	–	10	23	13	2.3
MAALGM0004-DIE	11 – 16	3/-0.6	55	–	12	23	11	2.9
MA01502D	8.5 – 12	5/-5	200	–	20	13	14	2.7
MA01503D	8.5 – 12	5/-5	300	–	20	8	19	2.7
Distributed Amplifiers								
MAAMGM0002-DIE	1 – 18	5/-5	100	21	20	31	9	4
MAAMGM0003-DIE	1 – 15	5/-5 variable	480 max	26	25	39	7.5 max	–
MAAMGM0007-DIE	2 – 18	5	200	22	19	30	9	4
Control Devices								
MA03501D	8 – 11	5/-4	275	22	21	26	18	10
MA03503D	8 – 11	5/-4	325	23.5	22	28	18	10
MAATGM0001-DIE	0.1 – 6	TTL/-5	<10	–	26 (Input)	36 (Input)	–3	–
MAATGM0004-DIE	1 – 20	TTL/-5	<10	–	26 (Input)	32 (Input)	–4.5	–
MAPCGM0001-DIE	1 – 1.9	TTL/-5	<10	–	27 (Input)	37 (Input)	–5.3	–
MAPCGM0003-DIE	2.3 – 4.1	TTL/-5	<10	–	23 (Input)	36 (Input)	–5.7	–
MAPCGM0002-DIE	3 – 5	TTL/-5	<10	–	26 (Input)	32 (Input)	–6	–
MAPCGM0004-DIE	6 – 18	TTL/-5	<10	–	19 (Input)	30 (Input)	–15	–
MAPCGM0005-DIE	7 – 12	TTL/-5	<10	–	23 (Input)	35 (Input)	–10	–
MAPDGM0001-DIE	1 – 5	NA	–	–	–	–	–3.8	–
MASWGM0002-DIE	0.1 – 20	TTL/-5	–	–	26 (Input)	29 (Input)	–3.5	–
MASWGM0003-DIE	0.1 – 8	TTL/-5	–	–	26 (Input)	35 (Input)	–3	–
MASWGM0005-DIE	0.1 – 8	TTL/-5	–	–	26 (Input)	35 (Input)	–3	–
MASWGM0001-DIE	0.1 – 14	TTL/-5	–	–	25 (Input)	33 (Input)	–3	–