

M/A-COM Technology Solutions...  
delivering performance & reliability  
in amplifier products



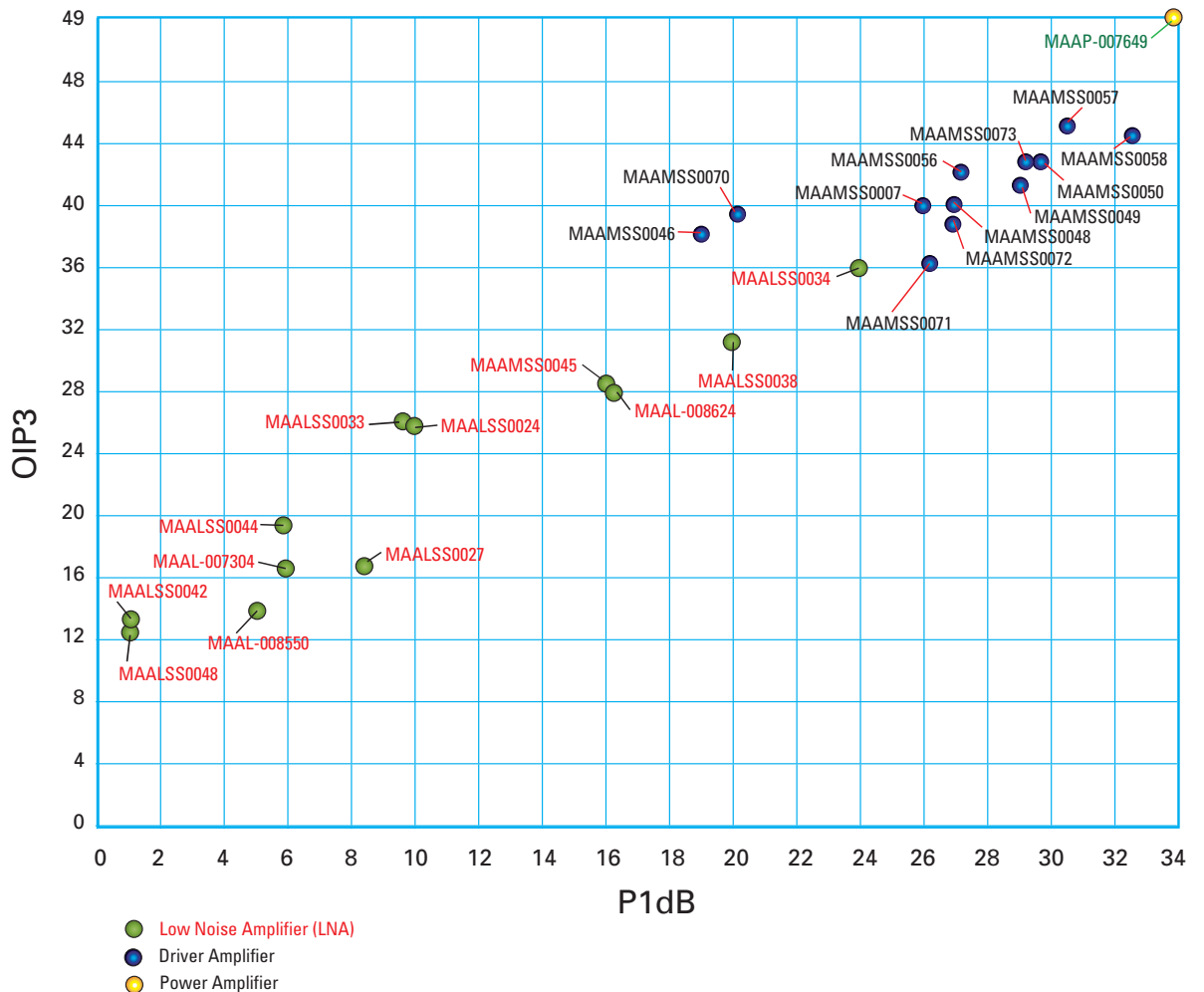
# Amplifiers



M/A-COM Technology Solutions amplifiers are used extensively in RF, microwave and mmWave commercial, military and space applications. M/A-COM Technology Solutions produces low noise amplifiers, power amplifiers, driver amplifiers, and wideband amplifiers ranging from 50 MHz to 77 GHz, designed specifically for a wide variety of markets, such as: WiMAX, WLAN, RFID, CATV, cordless, and cellular infrastructure.

This brochure lists our most widely used amplifiers in plastic surface mount packages and includes GaAs MESFET, pHEMT, HBT, and SiGe based IC products. This is only a sampling of our standard amplifier products. If you do not find an amplifier that meets your needs, please contact us for other options including custom products or variations of standard products.

## Selection Guide for Linear Amplifiers



## Power Amplifiers (PA)

Frequency (MHz)	Part Number	Gain (dB)	OIP3 (dBm)	P1dB (dBm)	Voltage (Volts)	Current (mA)	Package
<b>Packaged Products</b>							
2400 - 2500	MAAP-008516	30	33	23	3.3	85	2.5x2mm PQFN
2400 - 2500	MAAPSS0066	27	35	23	2.4	400	3mm PQFN 12ld
1880 - 1930	MAAPSS0076	25	36.5	25.5	2.4	320	3mm PQFN 12ld
1880 - 1930	MAAPSS0071	26	36	26	2.4	400	3mm PQFN 12ld
1880 - 1930	MAAP-000082	36	-	26.5	3.6	200	3mm PQFN 12ld
2400 - 2500	MAAPSS0075	29.5	52	26.5	3.3	185	3mm PQFN 12ld
850 - 960	MAAPSS0095	37	37	30	3.3	180	3mm PQFN 16ld
800 - 1000	MAAP-007649	19.5	49	34	7.5	540	4mm PQFN 16ld

## Low Noise Amplifiers (LNA)

Frequency (MHz)	Part Number	Bandwidth (MHz)	Center Freq (MHz)	Gain (dB)	NF (dB)	OIP3 (dBm)	P1dB (dBm)	Voltage (Volts)	Current (mA)	Package
<b>Packaged Products</b>										
500 - 3000	MAAL-007304	200	2300	25.5	0.7	19	7	3	11.5	SOT-26
500 - 3000	MAAL-008550	200	2300	12.5	0.75	16.5	1	3	7.5	SC-70
400 - 500	MAAL-008624	100	450	21	0.9	28	16.5	5	60	SOIC-8
2200 - 2400	MAALSS0033	200	2300	17	0.9	26	10	5	26	SOT-26
800 - 1000	MAALSS0040	200	900	16.8	0.95	30	14	5	40	SOT-26
1550 - 1600	MAALSS0042	50	1575	27	1.15	13	1	5	20	SOIC-8EP
1400 - 2000	MAAMSS0045	600	1785	14	1.4	29	16	5	45	SOIC-8EP
1500 - 1600	MAALSS0044	100	1500-1600	21	1.6	19	6	5	8	SOIC-8EP
70 - 3000	MAALSS0038	2500	900/1900/3000	14.5/12/9.6	1.5/1.5/1.6	32/32/32	21/21/21	5	87	SOT-363
70 - 3000	MAALSS0034	2500	900/1900/2400	14.5/12/9.2	1.55/1.6/1.7	33/36/37	22/23/23	5	88	SOT-89
1400 - 2000	MAALSS0048	300	1500/1900	18/17.5	1.6/1.65	13/12	1/0	3	6.5	SOT-26

## Tunable Broadband Drivers

Frequency (MHz)	Part Number	Bandwidth (MHz)	Center Freq (MHz)	Gain (dB)	OIP3 (dB)	P1dB (dBm)	NF (dB)	Voltage (Volts)	Current (mA)	Package
<b>Packaged Products</b>										
50 - 2500	MAAMSS0046	200	250/900/1900	18/12.5/10.5	38.5/34/34	20/19/19	4.8/5.1/5.3	5	70	SOT-89
70 - 3000	MAAMSS0070	200	900/1900/2140	13.2/12.7/12	42/41/41	21.5/21/22	3.2/3.2/3.3	5	150	SOT-89
300 - 2500	MAAMSS0071	200	900/1900/2140	21/17/16	37/38/37	26/26/26	3.2/3.4/3.2	5	115	SOT-89
250 - 4000	MAAMSS0048	200	900/1900/2140	21/16/15.5	40/42/40	27/27/27	4.5/3.3/3.5	5	175	SOT-89
250 - 4000	MAAMSS0072	200	700/1900/3500	32/24/23	39.5/38.5/39	27/28.5/27	5/4/3.7	5	235	4mm PQFN 16ld
250 - 3000	MAAMSS0056	200	900/1900/2140	26.5/22/22	42/42/42	28.5/28/27.5	4/3.5/3.5	5	190	SOIC-8EP
250 - 4000	MAAMSS0049	200	900/1900/2140	19/15.5/15.5	43/43/43	28.5/28.5/28.5	3.5/3.5/3.5	5	230	SOT-89
250 - 4000	MAAMSS0050	200	900/1900/2140	20/14/13	43/43/43	30/30/30	3.4/4/4.5	5	420	SOT-89
50 - 4000	MAAMSS0073	200	900/1900/3500	26/24/23	43/43/43	30.5/30/29	5/4.5/3.8	5	590	4mm PQFN 16ld
250 - 3000	MAAMSS0057	200	900/1900/2140	24/21/21	32/32/32	30.5/31/31	5/4.5/4.5	5	490	SOIC-8EP
250 - 3000	MAAMSS0058	100	1000	22	45	33	4.5	5	1100	SOIC-8EP

## 75 Ohm CATV Amplifiers

Frequency (MHz)	Part Number	Gain (dB)	NF (dB)	CSO/CTB Test Conditions	CSO/CTB (dBc)	P1dB (dBm)	Voltage (Volts)	Current (mA)	Package
<b>Packaged Products</b>									
50 - 870	MAAMSS0040	12	2.8	135 @ +25 dBmV	75/72	23	5	190	SOIC-16
50 - 1000	MAAMSS0041	14.8	2.7	132 @ +23 dBmV	70/80	23	8	100	SOT-89
50 - 1000	MAAMSS0042	15	3	132 @ +30 dBmV	70/70	21	5	110	SOT-89
50 - 1000	MAAMSS0044	12.5	3.7	79 @ +34 dBmV	80/75	24	5	225	4 mm PQFN 20ld
50 - 1000	MAAMSS0060	17	1.8	132 @ +30 dBmV	60/75	23	8	120	SOT-89
50 - 1000	MAAM-007796	21	3.8	132 @ +20 dBmV	70/70	20	5	160	4 mm PQFN 20ld
50 - 1000	MAAM-007807	9	3.8	132 @ +15 dBmV	65/75	17	5	60	SOT-89
50 - 1000	MAAMSS0067	12.2	3.3	135 @ +13 dBmV	78/78	24	5	190	4 mm PQFN 20ld

## Wideband Drivers

Frequency (MHz)	Part Number	Bandwidth (MHz)	Center Freq (MHz)	NF (dB)	Gain (dB)	OIP3 (dBm)	P1dB (dBm)	Voltage (Volts)	Current (mA)	Package
<b>Packaged Products</b>										
50 - 2000	MAAM-007865-OP1R00	50-2000	50-2000	6	20	29.5	18	5	42	3 mm PQFN 12ld
50 - 3300	MAAM-007866-OP1R00	50-3300	50-3300	6	27	36.5	23	5	155	3 mm PQFN 12ld

All parts are RoHS compliant.

## We work with you

M/A-COM Technology Solutions is an industry leader in the design, development, and manufacture of radio frequency (RF), microwave and millimeter wave semiconductors, components and technologies. Holding hundreds of patents in the field, M/A-COM Technology Solutions is internationally known as an innovator and integrator whose technologies are found in major markets such as wireless telecommunications, broadband communications, industrial and commercial electronics.

Headquartered in Lowell, Massachusetts, M/A-COM Technology Solutions has offices and manufacturing facilities worldwide.

M/A-COM Technology Solutions currently has many new products in development. We are happy to work with you on any customized products or standard product variations. Visit M/A-COM Technology Solutions on the Web at [www.macomtech.com](http://www.macomtech.com) or contact your local M/A-COM Technology Solutions sales office for assistance.

## Our Quality Policy

The goal of M/A-COM Technology Solutions is to continually deliver effective, high quality products and services that meet our customers' and internal operations' needs in terms of delivery, performance, safety and value.

Process controls shall be implemented such that the tasks are performed properly the first time, so that products and services meet established, agreed-to requirements.

It is the personal responsibility of every employee to ensure quality, improvement maintenance of our quality management system and compliance with customer and regulatory requirements.

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