



MMIC Amplifiers

Features:

- Robust 0.25 micron gate-length PHEMT MMICs
- Ultra Broadband Performance, (1-20 GHz, and 2-10 GHz)
- Range of PSAT from +15 dBm to +30 dBm
- Designed for EW, Radar, Communications, and Instrumentation applications
- Available in chip form and custom packaging
- Input and Output matched to 50ohms
- Space / Hi-Rel screening available
- High Performance/Quality MMIC Based on InGaP HBT, pHEMT, and Linear MESFET Technologies
- High Linearity, Fully Matched WiMax Power Amplifiers
- High Linearity, Broadband Gain Blocks
- Military Screening Available on Hermetically Sealed Packaged Products
- Low Cost Commercial Products



Part Number	Freq (GHz)	Linear Gain Typ/Min (dB)	Gain Flat Typ/Max \pm (dB)	Input RL Typ (dB)	OutputRL Typ(dB)	NoiseFig. Typ(dB)	Pout@ -1dB Typ/Min (dBm)	Vgs (V)	OIP3 Typ (dBm)	Vdd (V)	DC Current Typ/Max (mA)	Package Style	Status
<u>MLA-0522A-87</u>	0.05-1.0 or 1.6	17.5/15	1.0 or 1.25	14/18	17/18	-15	1.25 or 1.05	-	-0.04	3	-65	S7	Active Part
<u>MHA-054020</u>	0.05-4	-17.5	0.8	13	15	4.5	18.5	-	38	5	-100	Chip	
<u>MMA-054025</u>	0.05-4.0	-11	1	10	10	3.5	25	-	44	7.5	-350	Chip	Active Part
<u>MHA-054020-89</u>	0.05-4.0	17.5/-	0.8	13	15	4.5	18.5	-	38.0	5.0	100/-	89	Active Part
<u>MLA-0522A</u>	0.2-1 or 1-2.0	17.5/- or 16/-	6.5/- or 1.25/-	11 or 15	20 or 13	1.0 or 1.5	15.6/- or 15/-	0	-	3	70	Chip	Active Part
<u>MMA-053223-Q3</u>	0.5-3.2	12.0/-	1.5	10	10	3.5	24.0	-	42.0	6.0	120/200	Q3	Active Part
<u>MMA-053026-82</u>	0.5-4	12/11	1.0/2	10	10	3.5	27	-	-	8.0	-/300		Active Part
<u>MMA-054025-Q3</u>	0.5-4.0	11.0/-	1.0	10	10	3.5	25.0	-	44.0	7.5	-/350	Q3	Active Part
<u>MMA-011015-C5</u>	1-10	-15	-2.5	10	10	4	-15	-	-	6	-75	C5	Active Part
<u>MLA-01122B-H6</u>	1-12	17	1	14	11	1.6	16	0.13	-	5	-55	H6	Active Part
<u>MLA-01122B-C4</u>	1-12	17	1.5	108	14/11	1.4	16	0.13	-	5	55/65	C4	Active Part
<u>MMA-121630</u>	12-16	26.0/24.0	2.0/-	7	8	5.5	31.0/29.0	-0.65	-	8.0	560/650	chip	Active Part
<u>MMA-121630-S7</u>	12-16	26/24	2.0/-	7	8	6.5	31/29	-0.65	-	8.0	560/650		
<u>MLA-01122B</u>	1-8 or 8-12	17/- or 19	0.6/- or 1.5/-	10/-	11/-	1.5	16/-	0.13	-	5	55	chip	Active Part
<u>MMA-020624</u>	2.0-6.0	17.0/15.0	1.0/1.5	12	12/10	3.5	25	-	40	8	250/300	Chip	Active Part
<u>MHA-242733-Q5</u>	2.4-	14.0/12	1.0/1.5	8.0	8.0	-	33.0/-	-	46.0	7.5	640/800	Q5	Active

	2.7	.0											Part
<u>MMA-021015</u>	2-10	-18	-2.5	-12	-15	4.8	-17	-	-	6	-89	S7	Active Part
<u>MMA-021015</u>	2-10	-18	-2.5	-12	-15	4.8	-17	-	-	6	-89	Chip	Active Part
<u>MMA-022028-S7</u>	2-20	8.0/6.0	-1	10	10	4.5	28.0/26.0	-0.65	-	8	380500	S7	
<u>MPAM-206032-05</u>	2-6	26	1.2	13	14	5.5	32	-	-	89	230320	05	Active Part
<u>MHA-333833-Q5</u>	3.3-3.8	25.0/22.0	2.0/-	10	10	-	33.0/-	-	44.0	7.5	800/1000	Q5	Active Part
<u>MMA-343737-Q10</u>	3.4-3.7	13.0/12.0	-	9.5	5.0	-	36.5	-	48.0	8.5	1000/-	Q10	Active Part
<u>MHA-495433</u>	4.9-5.4	10.0	0.5	10	15	-	33.5	-	45	9	600	Chip	Active Part
<u>MMA-495933-Q5</u>	4.9-5.9	10.5/10.0	-	9.6	4.8	-	33.0/32.5	-1	46	7.5	600	Q5	Active Part
<u>MMA-495930-Q4</u>	4.9-5.9	20.0/18.0	1.0/1.2	8	8	-	30	-0.9	45	7.5	450500	L4	Active Part
<u>MHA-051023D-88</u>	50-1000	16.5	0.3	14	20	-	24	-	-	5	264	88	Active Part
<u>MLA-06183A</u>	5-8	19/-	2/-	10/-	11/-	3.0	20/-	-	-	4.5	135	Chip	Active Part
<u>MMA-061827</u>	6-18	8.0/6.0	1.0/-	2	8	6.5	27.0/-	-0.65	-	8.0	180/250	Chip	Active Part
<u>MMA-061829-10</u>	6-18	8.0/6.0	-1	10	10	6.5	3027	-0.65	-	8	380500	10	

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