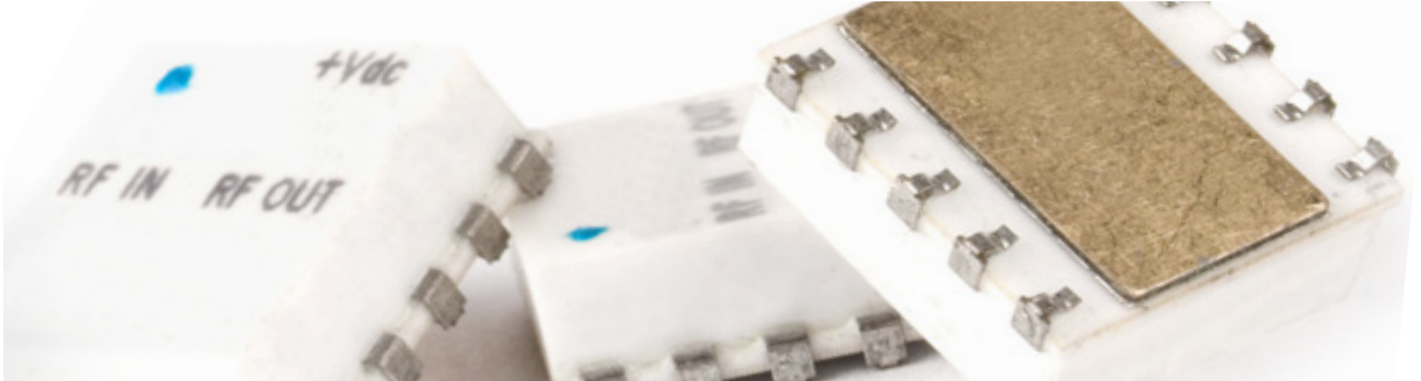


Higher Volume Package Options

Guaranteed High Performance in a Lower Cost Package



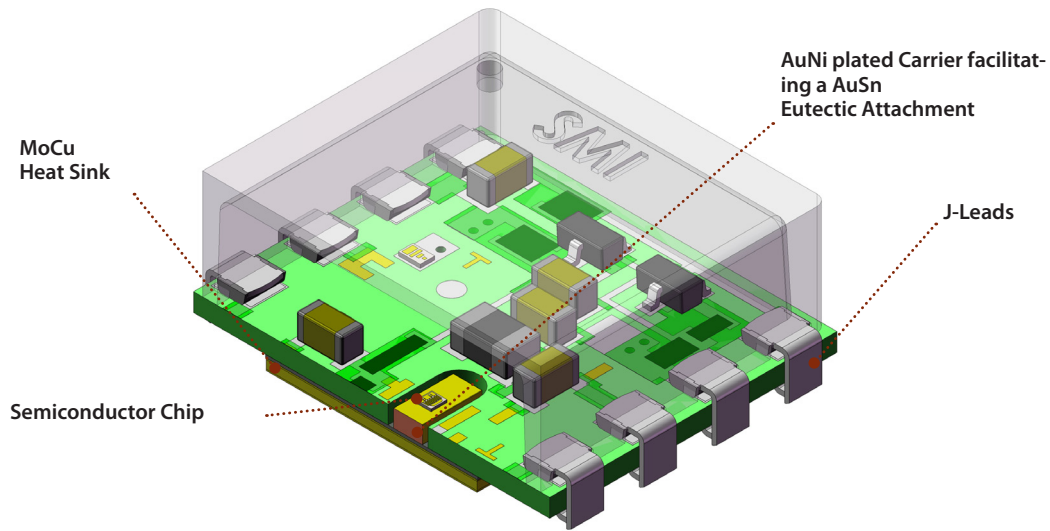
High performance LCA packaged amplifiers can cut your costs by as much as 75%!

- Frequencies to 4000 MHz
- Output Power to 2 Watts
- Noise figures as low as 0.9 dB
- No external biasing or RF matching circuits needed
- Available in tape and reel



API Technologies offers a variety of higher volume package options for its Amplifier line including our Lower Cost (non-hermetic) surface-mount package. This package option not only helps keep costs down, but on higher power requirements the transistor is bonded right to the Aluminum Nitride heat spreader for cooler operating temperatures.

Customer's Requirements	API Technologies	MMICs
Never Obsolete	✓	End-of-life / Next generation forces system redesign
True 50 Ohm Match	✓	Additional components means additional design time and real estate
Superior Phase Noise	✓	Not tested or guaranteed in production
Guaranteed Performance -55°C to 85°C	✓	Always Typical Values / Graphs
No External Components Needed	✓	Blocking caps are just the beginning...
Lower Cost	✓	✓



Higher Volume Amplifier Guide

Below are some of the more popular Higher Volume Amplifier designs API Technologies offers as standard products. API has a large selection of both standard and custom Higher Volume Amplifier designs, offering both exceptional value and outstanding performance.

Part Number	2050 Frequency (MHz)		Gain (dB)	P1dB (dBm)	Noise Figure (dB)	IP3 (dBm)	IP2 (dBm)	Power Supply (DC)
QBH-8719	30	145	21.5	25	2.5	40	51	15
QBH-8171	10	150	14	27	7.5	40	50	15
QBH-8749	10	200	22.0	26.0	3.5	40	57	12
QBH-8981	10	250	8.0	21.0	1.9	40	55	15
QBH-8114	10	400	14.4	7	3	20	30	5
QBH-8769	1.5	400	16.0	13.0	2.1	29	38	5
QBH-8508	30	400	17	12	1.4	25	34	5
QBH-8115	10	500	12.3	26	7.8	35	42	15
QBH-8714	800	825	16	27	1.1	41	51	15
QBH-8720	824	849	24.5	21	1.2	36	45	15
QBH-8713	890	915	15.8	27	1	42	52	15
QBH-8904	850	950	14.5	24.5	1.2	37	44	15
QBH-8920	800	960	17.5	29	2.5	45	55	9
QBH-8900	800	960	22	32	3.0	48	56	15
QBH-8817	10	1500	13.5	19.0	4.7	32	40	15
QBH-8739	1217	1585	22.0	5.0	0.9	15	24	5
QBH-8756	1850	1910	22.5	20	1	35	45	15
QBH-8702	1850	1910	28	25	1.2	37	47	12
QBH-8709	1930	1990	16	18.5	1.5	30	40	12
QBH-8701	1930	1990	28	25	1.2	37	47	12
QBH-8911	50	2000	10	25	4.5	40	48	12
QBH-8407	50	2000	10	28	4.5	42	50	15
QBH-8916	1800	2500	9.5	25	3.7	40	47	12
QBH-8990	450	2500	15	23	2.7	36	55	15
QBH-8924	2050	2500	10	25	4	42	52	12