

## Power Amplifiers (Narrow Band)

KMIC TECHNOLOGY offers a wide range of power amplifiers for terrestrial wireless and satellite communications applications.

Model Number	Frequency Range (GHz)	Gain (dB min)	Gain Flatness (±dB max)	Noise Figure (dB max)	VSWR max in/out	Power @1dB (dBm min)	Intercept Point (dBm typical)	DC Power (Volts)	DC Power (A)	Length x Width x Height (in)
<b>1.7 - 2.7 GHz</b>										
1720B3	1.7-2.0	40	1.0	8	1.5 / 1.3	+33	+43	+15	1.2	4.5 x 2.4 x 1.0
1720B4	1.7-2.0	40	1.0	8	1.5 / 1.3	+35	+45	+15	1.7	4.5 x 2.4 x 1.0
1720B5	1.7-2.0	40	1.0	8	1.5 / 1.3	+39	+49	+15	5.5	4.5 x 2.4 x 1.0
2025B14	2.0-2.5	40	1.0	8	1.5 / 1.3	+33	+43	+15	1.2	4.5 x 2.4 x 1.0
2025B15	2.0-2.5	40	1.0	8	1.5 / 1.3	+35	+45	+15	1.7	4.5 x 2.4 x 1.0
2025B16	2.0-2.5	40	1.0	8	1.5 / 1.3	+39	+49	+15	5.5	4.5 x 2.4 x 1.0
2327B18	2.3-2.7	40	1.0	8	1.5 / 1.3	+33	+43	+15	1.2	4.5 x 2.4 x 1.0
2327B19	2.3-2.7	40	1.0	8	1.5 / 1.3	+35	+45	+15	1.8	4.5 x 2.4 x 1.0
2327B20	2.3-2.7	40	1.0	8	1.5 / 1.3	+39	+49	+15	5.5	4.5 x 2.4 x 1.0
<b>3.7 - 4.2 GHz</b>										
3742B2	3.7-4.2	40	1.0	8	1.5 / 1.5	+33	+43	+15	1.4	2.08 x 1.2 x 0.9
3742B4	3.7-4.2	40	1.0	8	1.5 / 1.5	+36	+46	+15	3.5	2.6 x 1.2 x 0.9
3742B18	3.7-4.2	40	1.0	8	1.5 / 1.3	+40	+50	+15	7.0	5.4 x 3.93 x 1.15
<b>4.4 - 5.0 GHz</b>										
4450B	4.4-5.0	40	1.0	8	1.5 / 1.5	+30	+40	+15	0.75	1.75 x 1.2 x 0.9
4450B1	4.4-5.0	40	1.0	8	1.5 / 1.5	+33	+43	+15	1.4	2.15 x 1.2 x 0.9
4450B21	4.4-5.0	40	1.0	8	1.5 / 1.3	+37	+47	+15	3.5	5.45 x 5 x 1.1
4450B26	4.4-5.0	40	1.0	8	1.5 / 1.3	+40	+50	+15	7.0	5.45 x 5 x 1.15
4450B27	4.4-5.0	40	1.0	8	1.5 / 1.3	+43	+53	+15	11.0	5.45 x 5 x 1.15
4450B41	4.4-5.0	60	1.0	8	1.5 / 1.3	+47	+57	+15	27.0	8.75 x 10.7 x 1.77
<b>5.9 - 6.4 GHz (5.825-6.425 also available)</b>										
5964B	5.9-6.4	40	1.0	8	1.5 / 1.5	+30	+40	+15	0.75	1.75 x 1.2 x 0.9
5964B10	5.9-6.4	40	1.0	8	1.5 / 1.5	+33	+43	+15	1.5	2.15 x 1.2 x 0.9
5964B38	5.9-6.4	40	1.0	8	1.5 / 1.3	+37	+47	+15	4.0	5.4 x 3.93 x 1.15
5964B39	5.9-6.4	40	1.0	8	1.5 / 1.3	+40	+50	+15	8.0	5.45 x 5 x 1.15
5964B40	5.9-6.4	40	1.0	8	1.5 / 1.3	+43	+53	+15	12.0	5.45 x 5 x 1.15
5964B66	5.9-6.4	60	1.0	8	1.5 / 1.3	+47	+57	+15	29.0	8.75 x 10.7 x 1.77
5964B70	5.9-6.4	60	1.0	8	1.5 / 1.5	+50	+60	+13	60.0	8.75 x 10.7 x 1.77
<b>6.4 - 7.1 GHz</b>										
6471B27	6.4-7.1	30	1.0	8	1.5 / 1.3	+33	+43	+15	2.0	2.2 x 1.05 x 0.9
6471B28	6.4-7.1	35	1.0	8	1.5 / 1.3	+37	+47	+15	5.0	5.2 x 2 x 1.2

6471B29	6.4-7.1	40	1.0	8	1.5 / 1.3	+39	+49	+15	8.0	5.2 x 2 x 1.2
<b>7.1 - 7.7 GHz</b>										
7177B13	7.1-7.7	30	1.0	8	1.5 / 1.3	+33	+43	+15	2.0	2.2 x 1.05 x 0.9
7177B14	7.1-7.7	35	1.0	8	1.5 / 1.3	+37	+47	+15	5.0	5.2 x 2 x 1.2
7177B15	7.1-7.7	40	1.0	8	1.5 / 1.3	+39	+49	+15	8.0	5.2 x 2 x 1.2
<b>7.7 - 8.5 GHz</b>										
7785B9	7.7-8.5	30	1.0	8	1.5 / 1.5	+33	+43	+15	2.0	2.2 x 1.05 x 0.9
7785B10	7.7-8.5	35	1.0	8	1.5 / 1.5	+37	+47	+15	5.5	5.2 x 2 x 1.2
7785B11	7.7-8.5	40	1.0	8	1.5 / 1.5	+39	+49	+15	8.0	5.2 x 2 x 1.2
<b>7.9 - 8.4 GHz</b>										
7984B11	7.9-8.4	40	1.0	8	1.5 / 1.5	+32	+42	+15	1.5	2.2 x 1.05 x 0.9
7984B14	7.9-8.4	40	1.0	8	1.5 / 1.5	+37	+47	+15	4.2	5.4 x 3.93 x 1.15
7984B15	7.9-8.4	40	1.0	8	1.5 / 1.5	+40	+50	+15	8.3	5.45 x 5 x 1.15
<b>10.3 - 13.2 GHz</b>										
103117B9	10.3-11.7	30	1.0	8	1.5 / 1.5	+30	+40	+15	1.2	1.77 x 1 x 0.9
105117B10	10.5-11.7	35	1.0	8	1.5 / 1.5	+32	+42	+15	1.7	2.65 x 1.05 x 0.9
107117B11	10.7-11.7	40	1.0	8	1.5 / 1.5	+37	+47	+15	4.4	5.4 x 3.93 x 1.15
107117B12	10.7-11.7	40	1.0	8	1.5 / 1.5	+39	+49	+15	9.0	5.4 x 3.93 x 1.15
127132B7	12.7-13.2	40	1.0	8	1.5 / 1.5	+32	+42	+15	2.0	2.65 x 1.05 x 0.9
127132B10	12.7-13.2	40	1.0	8	1.5 / 1.5	+37	+47	+15	4.4	5.4 x 3.93 x 1.15
<b>14.0 - 14.5 GHz (13.75-14.5 also available)</b>										
140145B89	14.0-14.5	40	1.0	8	1.5 / 1.5	+36	+45	+15	4.5	5.4 x 3.93 x 1.15
140145B90	14.0-14.5	40	1.0	8	1.5 / 1.5	+39	+48	+15	9.0	5.4 x 3.93 x 1.15
140145B91	14.0-14.5	40	1.0	8	1.5 / 1.5	+42	+51	+15	19.0	5.4 x 3.93 x 1.15
140145B100	14.0-14.5	40	1.0	8	1.5 / 1.5	+44	+53	+13	34.0	8.75 x 10.7 x 1.77
<b>14.2 - 15.3 GHz</b>										
142153B6	14.2-15.3	15	1.0	8	1.5 / 1.5	+30	+41	+15	1.2	1.8 x 2.3 x 0.8
142147B6	14.2-14.7	15	1.0	8	1.5 / 1.5	+33	+42	+15	2.5	1.8 x 2.3 x 0.8
147153B11	14.7-15.3	15	1.0	8	1.5 / 1.5	+33	+42	+15	2.5	1.8 x 2.3 x 0.8
<b>17.7 - 19.7 GHz</b>										
177197B13	17.7-19.7	35	1.0	8	1.5 / 1.5	+27	+37	+15	0.88	2.4 x 1 x 0.9
177197B15	17.7-19.7	35	1.0	8	1.5 / 1.5	+30	+40	+15	1.5	3.49 x 1.65 x 0.9
181186B27	18.1-18.6	30	1.0	8	1.6 / 1.6	+30	+40	+15	1.4	2.8 x 1.67 x 0.9
181186B28	18.1-18.6	35	1.0	8	1.6 / 1.6	+32	+42	+15	2.5	2.8 x 1.67 x 0.9
<b>21.2 - 39.5 GHz</b>										
212236B17	21.2-23.6	10	1.0	10	1.8 / 1.8	+27	+37	+15	0.55	1.4 x 1 x 0.55
275285B3	27.5-28.5	10	1.0	10	1.8 / 1.8	+23	+32	+15	0.4	1.4 x 1 x 0.55
375395B3	37.5-39.5	10	1.0	10	1.8 / 1.8	+22	+31	+15	0.55	1.4 x 1 x 0.55

## Power Amplifiers (Wide Band)

KMIC TECHNOLOGY offers a wide range of low noise amplifiers for military and simulation equipment applications.

Model Number	Frequency Range (GHz)	Gain (dB min)	Gain Flatness (±dB max)	Noise Figure (dB max)	VSWR max in/out	Power @1dB (dBm min)	Intercept Point (dBm typical)	DC Power (Volts)	DC Power (A)	Length x Width x Height (in)
<b>Octave bandwidth</b>										
1020B	1.0 – 2.0	40	1.0	4.0	2.0/2.0	+30	+40	+15	.950	AW1
1020B3	1.0 – 2.0	40	1.0	5.0	2.0/2.0	+33	+43	+15	1.7	AW2
2040B	2.0 – 4.0	40	1.0	4.0	2.0/2.0	+30	+40	+15	.950	AW1
2040B10	2.0 – 4.0	40	1.0	5.0	2.0/2.0	+33	+43	+15	1.8	AW2
4080B17	4.0 – 8.0	40	1.0	7.0	2.0/2.0	+30	+40	+15	.950	AW1
4080B20	4.0 – 8.0	40	1.0	7.0	2.0/2.0	+33	+43	+15	1.8	AW2
60120B	6.0 – 12.0	36	1.5	8.0	2.0/2.0	+31	+41	+15	1.2	AW5
80160B	8.0 – 16.0	36	1.5	8.0	2.0/2.0	+30	+40	+15	1.6	AW6
<b>Octave plus bandwidth</b>										
2060B10	2.0 – 6.0	40	1.0	6.0	2.0/2.0	+30	+40	+15	.950	AW1
2080B17	2.0 – 6.0	40	1.5	7.0	2.0/2.0	+31	+41	+15	1.1	AW1
40100B12	4.0 – 10.0	36	1.2	8.0	2.0/2.0	+31	+41	+15	1.2	AW4
60180B19	6.0 – 18.0	36	1.5	8.0	2.0/2.0	+30	+40	+15	1.7	AW6
80180B16	8.0 – 18.0	36	1.5	8.0	2.0/2.0	+30	+40	+15	1.7	AW6
<b>Sub-octave bandwidth</b>										
80120B16	8.0 – 12.0	36	1.3	8.0	2.0/2.0	+30	+40	+15	1.0	AW5
80120B17	8.0 – 12.0	36	1.3	8.0	2.0/2.0	+32	+42	+16	1.8	AW5
180265B1	18 – 26.5	30	1.5	8.0	2.0/2.0	+24	+34	+15	.600	AW7