

Upconverters

KMIC TECHNOLOGY offers a wide range of upconverters for terrestrial wireless applications.

Model Number	Output Frequency Range (GHz)	Input LO Frequency (GHz)	Input IF Frequency (MHz)	Sideband Rejection (dBc min)	IF/RF Conversion Gain	Output Power @ -1dB (dBm min)	Output IP3 (dBm typ)	Current @ +12 volts DC (A max)	Length x Width x Height (in)
3.0 - 8.5 GHz									
3642BMX	3.6-4.2	Hi or Lo	70, +/-20	-20	43	+40	+50	8.0	10 x 6 x 2
4450BMX	4.4-5.0	Hi or Lo	70, +/-20	-20	43	+40	+50	8.0	10 x 6 x 2
4450BMX1	4.4-5.0	Hi or Lo	70, +/-20	-20	48	+45	+55	26.0	10 x 6 x 2
5964BMX	5.9-6.4	Hi or Lo	70, +/-20	-20	43	+40	+50	8.0	10 x 6 x 2
6471BMX	6.4-7.1	Hi or Lo	70, +/-20	-20	43	+40	+50	8.0	10 x 6 x 2
7178BMX1	7.1-7.8	Hi or Lo	300, +/-50	-20	43	+32	+41	3.2	5.5 x 2 x 1.15
7178BMX2	7.1-7.8	Hi or Lo	300, +/-50	-20	43	+35	+44	3.5	5.5 x 2 x 1.15
7785BMX1	7.7-8.5	Hi or Lo	300, +/-50	-20	43	+32	+41	8.0	5.5 x 2 x 1.15
7785BMX2	7.7-8.5	Hi or Lo	300, +/-50	-20	43	+35	+44	8.0	5.5 x 2 x 1.15
7785BMX	7.7-8.5	Hi or Lo	70, +/-20	-20	43	+40	+50	0.65	10 x 6 x 2
10.0 - 20.0 GHz									
107117BMX	10.7-11.7	Hi or Lo	70, +/-20	-20	43	+40	+50	0.65	10 x 6 x 2
127132AMX	12.7-13.2	7.75-8.25	2800, +/-100	-20	24	+21	+31	0.65	3 x 2.24 x 1.15
144153AMX	14.4-15.3	8.6-9.05	2800, +/-100	-20	24	+21	+31	0.65	3 x 2.24 x 1.15
177197AMX	17.7-19.7	6.83-7.5	2800, +/-100	-20	24	+21	+31	0.65	3 x 2.24 x 1.15
21.0 - 26.5 GHz									
212226AMX	21.2-22.6	8.0-8.47	2800, +/-100	-20	24	+21	+31	0.65	3 x 2.24 x 1.15
224236AMX	22.4-23.6	8.4-8.8	2800, +/-100	-20	24	+21	+31	0.65	3 x 2.24 x 1.15
245255AMX	24.5-25.5	9.1-9.43	2800, +/-100	-20	24	+21	+31	0.65	3 x 2.24 x 1.15
255265AMX	25.5-26.5	9.43-9.77	2800, +/-100	-20	24	+21	+31	0.65	3 x 2.24 x 1.15

Available Options include:

- Output power monitor detector
- Selected IF frequency
- Linearized gain control
- TTL On/Off control
- Temperature compensation
- IF bandwidth Slope Equalization
- Sense alarms (power, current, temp.)
- LO leakage suppression adjust

Common Specifications:

- VSWR: 1.5:1 Maximum
- Connectors: RF=SMA-F, DC=Pin Feedthru
- LO Power Level: +11 dBm Nominal
- Base Plate Temperature @ +25°C

Downconverters

KMIC TECHNOLOGY offers a wide range of downconverters for terrestrial wireless applications.

Model Number	Input Frequency Range (GHz)	Input LO Frequency (GHz)	Output IF Frequency (MHz)	Noise Figure (dB max)	RF/IF Conversion Gain	Image Rejection (dB min)	Input Power @-1 dB (dBm min)	Current @ +12 volts DC (A max)	Length x Width x Height (in)
3.0 - 8.5 GHz									
3642ADC	3.6-4.2	Hi or Lo	70, +/-20	2.5	24	16	-15	0.30	5.5 x 5.5 x 1
4450ADC	4.4-5.0	Hi or Lo	70, +/-20	2.5	24	16	-15	0.30	5.5 x 5.5 x 1
5964ADC	5.9-6.4	Hi or Lo	70, +/-20	2.5	24	16	-15	0.30	5.5 x 5.5 x 1
6471ADC	6.4-7.1	Hi or Lo	70, +/-20	2.5	24	16	-15	0.30	5.5 x 5.5 x 1
7178ADC	7.1-7.8	Hi or Lo	550, +/-50	2.0	35	20	-25	0.17	4 x 2 x 1
7785ADC	7.7-8.5	Hi or Lo	70, +/-20	2.5	24	16	-15	0.30	5.5 x 5.5 x 1
10.0 - 20.0 GHz									
107117ADC	10.7-11.7	Hi or Lo	70, +/-20	2.5	24	16	-15	0.30	5.5 x 5.5 x 1
127132ADC	12.7-13.2	7.2-7.45	1700, +/-100	5.0	10	12	-15	0.40	3 x 2.24 x 1.15
144153ADC	14.4-15.3	8.05-8.5	1700, +/-100	5.0	10	12	-15	0.40	3 x 2.24 x 1.15
177197ADC	17.7-19.7	6.47-7.13	1700, +/-100	5.0	10	12	-15	0.40	3 x 2.24 x 1.15
21.0 - 26.5 GHz									
212226ADC	21.2-22.6	7.63-8.1	1700, +/-100	5.0	10	12	-15	0.40	3 x 2.24 x 1.15
224236ADC	22.4-23.6	8.03-8.43	1700, +/-100	5.0	10	12	-15	0.40	3 x 2.24 x 1.15
245255ADC	24.5-25.5	8.73-9.07	1700, +/-100	5.0	10	12	-15	0.40	3 x 2.24 x 1.15
255265ADC	25.5-26.5	9.07-9.4	1700, +/-100	5.0	10	12	-15	0.40	3 x 2.24 x 1.15

Available Options include:

- Output power monitor detector
- Selected IF frequency
- Linearized gain control
- TTL On/Off control
- Temperature compensation
- IF bandwidth Slope Equalization
- Sense alarms (power, current, temp.)
- LO leakage suppression adjust

Common Specifications:

- VSWR: 1.5:1 Maximum
- Connectors: RF=SMA-F, DC=Pin Feedthru
- LO Power Level: +11 dBm Nominal
- Base Plate Temperature @ +25°C