

Frequency Mixer

TAK-6+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+1dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+4	+7	+10			+4	+7	+10			+4	+7	+10
0.5	30.5	7.80	7.38	7.11	10.1	40.1	19.52	25.43	25.23	10.1	40.1	1.38	1.06	0.80
1.0	31.0	7.13	6.75	6.47	50.4	80.4	20.85	21.21	23.18	50.4	80.4	1.24	0.95	0.70
2.0	32.0	6.54	6.13	5.93	90.8	120.8	22.56	22.84	22.51	90.8	120.8	1.17	0.89	0.66
5.0	35.0	5.88	5.55	5.38	110.9	140.9	20.67	22.23	26.37	110.9	140.9	1.12	0.81	0.61
10.0	40.0	5.87	5.53	5.32	151.3	181.3	18.70	22.17	26.43	151.3	181.3	1.08	0.78	0.61
50.4	80.4	5.48	5.19	5.07	171.5	201.5	21.64	23.23	23.00	171.5	201.5	1.06	0.76	0.57
90.8	120.8	5.41	5.20	5.08	211.8	241.8	21.43	23.87	23.35	211.8	241.8	0.98	0.70	0.53
110.9	140.9	5.41	5.21	5.08	232.0	262.0	23.15	26.39	20.63	232.0	262.0	1.03	0.72	0.56
151.3	181.3	5.41	5.21	5.13	272.3	302.3	20.50	17.87	23.16	272.3	302.3	0.94	0.71	0.55
211.8	241.8	5.40	5.23	5.16	292.5	322.5	18.00	17.26	18.65	292.5	322.5	0.93	0.69	0.55
232.0	262.0	5.44	5.22	5.17	332.8	362.8	19.53	22.34	23.38	332.8	362.8	0.87	0.63	0.49
272.3	302.3	5.50	5.26	5.18	353.0	383.0	21.23	23.31	22.47	353.0	383.0	0.96	0.71	0.53
292.5	322.5	5.47	5.29	5.21	393.3	423.3	20.03	18.10	26.30	393.3	423.3	1.03	0.77	0.58
332.8	362.8	5.58	5.33	5.25	413.5	443.5	16.36	16.96	17.93	413.5	443.5	1.19	0.90	0.72
353.0	383.0	5.65	5.40	5.30	453.8	483.8	15.60	15.93	15.94	453.8	483.8	1.42	1.06	0.87
393.3	423.3	5.70	5.49	5.40	474.0	504.0	16.66	15.58	17.59	474.0	504.0	1.54	1.14	0.89
413.5	443.5	5.66	5.51	5.44	514.3	544.3	19.41	19.85	20.16	514.3	544.3	1.85	1.34	1.07
453.8	483.8	5.81	5.59	5.51	534.5	564.5	16.10	25.14	25.98	534.5	564.5	2.02	1.54	1.24
474.0	504.0	5.82	5.60	5.59	574.8	604.8	11.11	16.99	21.37	574.8	604.8	2.23	1.87	1.57
514.3	544.3	6.00	5.76	5.71	595.0	625.0	9.37	12.94	16.74	595.0	625.0	2.37	2.02	1.71
574.8	604.8	6.49	6.01	5.74	635.4	665.4	8.38	10.27	14.20	635.4	665.4	2.37	2.09	1.88
595.0	625.0	6.71	6.20	5.80	655.5	685.5	8.60	10.14	13.62	655.5	685.5	2.20	1.94	1.74
635.4	665.4	7.14	6.60	6.04	695.9	725.9	8.83	10.07	11.86	695.9	725.9	1.95	1.78	1.66
655.5	685.5	7.31	6.75	6.21	716.0	746.0	9.78	10.47	12.18	716.0	746.0	1.71	1.52	1.43
695.9	725.9	7.76	7.16	6.54	756.4	786.4	11.31	12.83	14.12	756.4	786.4	1.59	1.43	1.32
716.0	746.0	8.02	7.47	6.95	776.5	806.5	12.69	13.71	15.67	776.5	806.5	1.56	1.45	1.38
756.4	786.4	8.20	7.63	7.15	816.9	846.9	15.84	16.09	21.89	816.9	846.9	1.66	1.56	1.40
776.5	806.5	8.28	7.65	7.10	837.0	867.0	16.84	20.70	25.65	837.0	867.0	1.81	1.63	1.41
816.9	846.9	8.08	7.39	6.84	877.4	907.4	17.78	23.47	21.22	877.4	907.4	1.84	1.49	1.19
837.0	867.0	7.88	7.16	6.70	897.6	927.6	18.30	19.20	21.58	897.6	927.6	1.84	1.45	1.17
877.4	907.4	7.68	7.04	6.71	937.9	967.9	18.34	22.11	23.06	937.9	967.9	1.68	1.28	1.01
897.6	927.6	7.52	6.98	6.76	958.1	988.1	17.42	19.66	25.46	958.1	988.1	1.75	1.30	1.03
958.1	988.1	7.76	7.31	7.08	998.4	1028.4	16.86	18.37	18.86	998.4	1028.4	1.64	1.27	1.04
998.4	1028.4	8.02	7.58	7.40	1018.6	1048.6	18.94	17.70	20.64	1018.6	1048.6	1.64	1.24	1.01
1018.6	1048.6	8.21	7.76	7.58	1058.9	1088.9	16.78	18.38	20.40	1058.9	1088.9	1.53	1.11	0.93
1058.9	1088.9	8.71	8.27	8.09	1079.1	1109.1	15.79	16.24	16.03	1079.1	1109.1	1.37	1.01	0.82
1079.1	1109.1	8.83	8.50	8.37	1119.4	1149.4	17.54	18.16	20.69	1119.4	1149.4	1.29	0.88	0.70
1119.4	1149.4	9.37	9.04	8.91	1139.6	1169.6	17.24	18.34	20.56	1139.6	1169.6	1.41	0.88	0.66
1179.9	1209.9	10.25	9.74	9.57	1179.9	1209.9	16.92	19.16	23.23	1179.9	1209.9	1.41	0.86	0.64
1200.1	1230.1	10.45	9.99	9.85	1200.1	1230.1	16.58	18.61	16.87	1200.1	1230.1	1.32	0.78	0.56

REV. X2

TAK-6+

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Frequency Mixer

TAK-6+

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=300.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=600.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
290.0	10.1	5.58	10.0	20.1	5.12	590.0	10.1	6.67
282.8	17.3	5.54	24.9	35.0	4.94	575.1	25.0	6.52
275.6	24.5	5.50	39.7	49.8	4.97	560.3	39.8	6.50
268.5	31.6	5.48	54.6	64.7	4.99	545.4	54.7	6.46
261.3	38.8	5.42	69.5	79.6	5.02	530.5	69.6	6.41
254.1	46.0	5.43	84.4	94.5	5.03	515.6	84.5	6.33
246.9	53.2	5.41	99.2	109.3	5.04	500.8	99.3	6.28
239.7	60.4	5.41	114.1	124.2	5.05	485.9	114.2	6.27
232.6	67.5	5.37	129.0	139.1	5.06	471.0	129.1	6.20
225.4	74.7	5.33	143.8	153.9	5.10	456.2	143.9	6.26
218.2	81.9	5.31	158.7	168.8	5.15	441.3	158.8	6.27
211.0	89.1	5.30	173.6	183.7	5.13	426.4	173.7	6.27
203.8	96.3	5.32	188.5	198.6	5.19	411.5	188.6	6.18
196.7	103.4	5.30	203.3	213.4	5.16	396.7	203.4	6.15
189.5	110.6	5.27	218.2	228.3	5.18	381.8	218.3	6.19
182.3	117.8	5.26	233.1	243.2	5.23	366.9	233.2	6.20
175.1	125.0	5.27	247.9	258.0	5.29	352.1	248.0	6.22
167.9	132.2	5.27	262.8	272.9	5.27	337.2	262.9	6.18
160.8	139.3	5.24	277.7	287.8	5.28	322.3	277.8	6.23
153.6	146.5	5.24	292.6	302.7	5.34	307.4	292.7	6.19
146.4	153.7	5.26	307.4	317.5	5.34	292.6	307.5	6.21
139.2	160.9	5.28	322.3	332.4	5.41	277.7	322.4	6.18
132.1	168.0	5.29	337.2	347.3	5.38	262.8	337.3	6.20
124.9	175.2	5.24	352.1	362.2	5.37	247.9	352.2	6.22
117.7	182.4	5.24	366.9	377.0	5.51	233.1	367.0	6.15
110.5	189.6	5.26	381.8	391.9	5.54	218.2	381.9	6.16
103.3	196.8	5.27	396.7	406.8	5.66	203.3	396.8	6.12
96.2	203.9	5.26	411.5	421.6	5.68	188.5	411.6	6.13
89.0	211.1	5.24	426.4	436.5	5.89	173.6	426.5	6.11
81.8	218.3	5.23	441.3	451.4	5.88	158.7	441.4	6.16
74.6	225.5	5.23	456.2	466.3	5.94	143.8	456.3	6.16
67.4	232.7	5.23	471.0	481.1	5.84	129.0	471.1	6.14
60.3	239.8	5.23	485.9	496.0	5.85	114.1	486.0	6.12
53.1	247.0	5.22	500.8	510.9	5.78	99.2	500.9	6.05
45.9	254.2	5.23	515.6	525.7	5.71	84.4	515.7	6.02
38.7	261.4	5.24	530.5	540.6	5.69	69.5	530.6	5.94
31.5	268.6	5.24	545.4	555.5	5.64	54.6	545.5	5.85
24.4	275.7	5.24	560.3	570.4	5.71	39.7	560.4	5.87
17.2	282.9	5.27	575.1	585.2	5.65	24.9	575.2	5.87
10.0	290.1	5.41	590.0	600.1	5.65	10.0	590.1	6.06



Frequency Mixer

TAK-6+

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10
0.5	64.00	67.00	70.00	64.00	67.00	70.00
1.0	64.00	67.00	70.00	64.00	67.00	70.00
2.0	64.00	67.00	70.00	64.00	67.00	70.00
5.0	64.00	67.00	70.00	64.00	67.00	70.00
10.0	64.00	67.00	70.00	64.00	67.00	64.95
50.4	62.14	63.34	64.49	67.60	73.10	71.09
90.8	56.60	58.17	59.58	64.29	64.98	65.29
110.9	55.09	56.59	57.94	60.81	62.38	63.80
151.3	52.64	54.18	55.38	57.78	59.67	60.59
211.8	50.14	51.67	52.82	54.62	56.24	56.77
232.0	49.37	50.94	52.14	54.86	56.20	55.39
272.3	48.19	49.49	50.54	53.20	53.51	52.51
292.5	47.64	49.09	50.27	53.16	53.52	52.09
332.8	47.03	48.39	49.55	50.82	50.60	50.31
353.0	46.75	48.23	49.59	49.35	48.71	47.87
393.3	46.32	48.20	49.92	47.51	46.25	45.15
413.5	45.69	47.54	49.19	46.32	44.63	43.37
453.8	44.49	46.28	47.99	46.04	44.09	43.00
474.0	43.78	45.35	46.75	45.64	42.99	41.81
514.3	44.46	47.02	50.11	44.93	40.57	38.40
574.8	47.68	54.66	58.98	42.97	38.53	36.23
595.0	47.43	51.87	53.67	41.52	37.63	35.17
635.4	47.31	51.50	53.14	37.94	36.70	34.05
655.5	46.32	50.56	55.07	36.26	35.79	33.67
695.9	47.04	50.70	53.13	33.45	33.38	32.32
716.0	48.40	51.31	48.75	32.27	32.34	31.79
756.4	50.11	51.35	47.57	30.16	30.53	30.68
776.5	46.72	47.58	46.86	29.12	29.55	29.84
816.9	46.00	45.59	44.04	27.01	27.50	27.80
837.0	47.95	47.62	44.80	26.26	26.88	26.92
877.4	47.19	44.37	41.34	24.94	25.39	24.24
897.6	48.53	43.12	39.78	24.06	24.41	23.20
958.1	55.57	43.37	39.57	21.53	21.58	20.73
998.4	48.50	42.18	38.36	19.89	20.10	19.48
1018.6	43.00	39.70	36.79	19.20	19.32	18.71
1058.9	39.39	37.70	35.39	18.18	18.34	17.80
1079.1	37.15	36.12	34.18	17.60	17.89	17.45
1119.4	34.46	33.96	32.54	16.89	17.18	16.70
1179.9	31.86	31.83	30.85	16.11	16.45	15.91
1200.1	30.99	30.80	29.86	15.97	16.10	15.47

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	49.06	55.00	47.39
50.4	80.4	37.07	37.95	38.23
90.8	120.8	32.90	33.31	33.63
110.9	140.9	31.41	31.87	32.22
151.3	181.3	29.65	30.11	30.26
171.5	201.5	29.05	29.40	29.64
211.8	241.8	28.26	28.71	28.91
232.0	262.0	28.16	28.61	28.97
272.3	302.3	27.66	28.22	29.02
292.5	322.5	27.58	28.24	28.72
332.8	362.8	27.87	28.43	28.96
353.0	383.0	28.15	28.74	29.22
393.3	423.3	28.82	29.78	30.72
413.5	443.5	28.34	29.18	30.11
453.8	483.8	27.81	28.64	29.46
474.0	504.0	27.33	28.20	29.02
514.3	544.3	25.91	26.59	26.90
534.5	564.5	25.25	25.75	25.97
574.8	604.8	23.84	24.09	24.12
595.0	625.0	23.33	23.64	23.59
635.4	665.4	22.87	23.27	23.61
655.5	685.5	22.85	23.30	23.83
695.9	725.9	23.51	23.87	24.43
716.0	746.0	23.99	24.28	24.66
756.4	786.4	25.26	25.46	25.74
776.5	806.5	25.85	25.92	25.81
816.9	846.9	26.68	26.30	25.35
837.0	867.0	26.68	26.00	24.88
877.4	907.4	25.42	24.18	22.95
897.6	927.6	24.39	23.07	22.13
937.9	967.9	22.79	21.63	20.74
958.1	988.1	22.21	21.08	20.22
998.4	1028.4	20.75	19.64	18.75
1018.6	1048.6	20.02	19.05	18.20
1058.9	1088.9	18.72	17.75	16.89
1079.1	1109.1	17.89	16.99	16.20
1119.4	1149.4	16.74	15.84	15.14
1139.6	1169.6	16.31	15.43	14.75
1179.9	1209.9	15.08	14.39	13.82
1200.1	1230.1	14.62	13.88	13.35



Frequency Mixer

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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+4	+7	+10
5.0	35.0	1.19	1.26	1.30
10.0	40.0	1.10	1.18	1.24
50.4	80.4	1.14	1.06	1.06
90.8	120.8	1.12	1.08	1.11
110.9	140.9	1.11	1.10	1.14
151.3	181.3	1.12	1.13	1.17
171.5	201.5	1.12	1.14	1.18
211.8	241.8	1.13	1.17	1.23
232.0	262.0	1.14	1.19	1.24
272.3	302.3	1.14	1.19	1.25
292.5	322.5	1.15	1.19	1.23
332.8	362.8	1.19	1.25	1.30
353.0	383.0	1.21	1.29	1.36
393.3	423.3	1.23	1.31	1.39
413.5	443.5	1.22	1.30	1.38
453.8	483.8	1.24	1.31	1.37
474.0	504.0	1.24	1.34	1.40
514.3	544.3	1.20	1.28	1.32
534.5	564.5	1.14	1.21	1.24
574.8	604.8	1.04	1.06	1.09
595.0	625.0	1.09	1.05	1.06
635.4	665.4	1.28	1.22	1.19
655.5	685.5	1.38	1.32	1.28
695.9	725.9	1.68	1.61	1.56
716.0	746.0	1.85	1.77	1.71
756.4	786.4	2.11	2.04	1.97
776.5	806.5	2.23	2.15	2.09
816.9	846.9	2.39	2.30	2.25
837.0	867.0	2.45	2.37	2.34
877.4	907.4	2.65	2.58	2.55
897.6	927.6	2.75	2.69	2.65
937.9	967.9	2.98	2.91	2.86
958.1	988.1	3.12	3.03	2.97
998.4	1028.4	3.31	3.22	3.14
1018.6	1048.6	3.42	3.33	3.24
1058.9	1088.9	3.70	3.59	3.51
1079.1	1109.1	3.78	3.70	3.64
1119.4	1149.4	4.08	4.01	3.98
1139.6	1169.6	4.21	4.16	4.13
1179.9	1209.9	4.39	4.34	4.32
1200.1	1230.1	4.48	4.42	4.42

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+4	+7	+10
5.0	1.88	2.80	4.21
10.0	1.84	2.76	3.86
50.4	1.79	2.62	3.67
90.8	1.70	2.51	3.52
110.9	1.71	2.47	3.45
151.3	1.76	2.52	3.47
171.5	1.73	2.47	3.37
211.8	1.81	2.57	3.51
232.0	1.85	2.66	3.60
272.3	1.90	2.70	3.64
292.5	1.87	2.61	3.51
332.8	1.99	2.74	3.66
353.0	1.99	2.73	3.62
393.3	2.08	2.81	3.70
413.5	2.18	2.98	3.90
453.8	2.25	3.07	4.01
474.0	2.19	2.92	3.82
514.3	2.33	3.04	3.91
534.5	2.36	3.05	3.91
574.8	2.50	3.19	4.02
595.0	2.62	3.35	4.23
635.4	2.73	3.50	4.36
655.5	2.74	3.48	4.32
695.9	2.93	3.70	4.56
716.0	2.93	3.69	4.56
756.4	2.99	3.72	4.59
776.5	3.07	3.81	4.69
816.9	3.11	3.83	4.67
837.0	3.15	3.83	4.63
877.4	3.19	3.82	4.61
897.6	3.15	3.75	4.52
937.9	3.20	3.79	4.55
958.1	3.27	3.86	4.62
998.4	3.50	4.01	4.72
1018.6	3.68	4.19	4.87
1058.9	3.92	4.37	5.00
1079.1	3.96	4.35	4.91
1119.4	4.13	4.47	4.99
1139.6	4.18	4.53	5.03
1179.9	4.19	4.55	5.02
1200.1	4.25	4.64	5.10

IF (OUT) (MHz)	IF VSWR @LO=600.1MHz (:1)		
	@LO (dBm)		
	+4	+7	+10
5.0	1.49	1.31	1.21
10.0	1.50	1.32	1.21
25.1	1.83	1.50	1.30
40.3	1.80	1.49	1.31
55.4	1.77	1.47	1.33
70.5	1.79	1.51	1.36
85.6	1.82	1.53	1.37
100.8	1.86	1.55	1.39
115.9	1.89	1.59	1.43
131.0	1.91	1.61	1.46
146.2	1.91	1.63	1.49
161.3	1.96	1.67	1.52
176.4	1.98	1.69	1.54
191.5	2.02	1.74	1.59
206.7	2.06	1.78	1.63
221.8	2.12	1.83	1.68
236.9	2.16	1.87	1.73
252.1	2.20	1.91	1.77
267.2	2.22	1.93	1.79
282.3	2.22	1.94	1.80
297.4	2.26	1.98	1.83
312.6	2.31	2.03	1.88
327.7	2.34	2.07	1.93
342.8	2.37	2.10	1.97
357.9	2.42	2.14	2.00
373.1	2.44	2.15	2.02
388.2	2.44	2.16	2.03
403.3	2.44	2.17	2.04
418.5	2.48	2.21	2.08
433.6	2.57	2.28	2.14
448.7	2.62	2.33	2.19
463.8	2.60	2.31	2.18
479.0	2.59	2.29	2.15
494.1	2.59	2.30	2.16
509.2	2.61	2.32	2.18
524.4	2.64	2.35	2.22
539.5	2.68	2.38	2.24
554.6	2.74	2.41	2.27
569.7	2.80	2.45	2.29
584.9	2.80	2.46	2.30
600.0	2.59	2.58	2.65

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	21	42	19	43	21	43	26	39	45	60
1	-	24	+0	34	12	37	20	42	42	56	38	53
2	>100	>81	62	78	66	77	63	>81	63	77	59	80
3	>100	69	57	67	58	69	56	69	69	77	70	>81
4	>100	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
5	>100	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
6	>100	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
7	>100	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
8	>100	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
9	>100	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
10	>100	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 300.1 MHz; -14.00 dBm.
 LO IN: 330.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -19.35 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	30	54	29	54	32	53	38	52	52	73
1	-	25	+0	36	13	37	22	49	43	59	44	58
2	>100	66	55	80	61	70	55	72	58	70	55	69
3	>100	53	37	50	40	53	37	54	45	60	58	65
4	>100	75	71	76	79	74	79	79	78	83	72	80
5	>100	87	65	71	57	69	53	70	55	64	74	75
6	>100	>90	>90	86	84	84	89	83	87	83	89	>90
7	>100	>90	84	>90	70	84	71	81	67	>90	64	79
8	>100	>90	>90	>90	>90	>90	>90	>90	>90	>90	>90	>90
9	>100	>90	>90	>90	>90	>90	83	>90	86	84	87	89
10	>100	>90	>90	>90	>90	>90	>90	>90	>90	>90	83	>90
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 300.1 MHz; -4.00 dBm.
 LO IN: 330.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -9.55 dBm

- Notes: 1. All Harmonics are in (dBc) relative to IF OUTPUT.
 2. + entry denotes harmonics are in (dBc) above IF OUTPUT.
 3. RF Cal represent the Harmonics level of the RF input signal to the mixer.

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