

Frequency Mixer

SAM-3

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
0.1	30.1	6.00	5.74	5.57	10.0	40.0	24.13	26.63	21.52	10.0	40.0	0.94	0.66	0.51
0.2	30.2	5.45	5.22	5.09	29.8	59.8	25.80	19.86	22.54	29.8	59.8	1.14	0.81	0.65
0.5	30.5	5.20	4.98	4.85	49.6	79.6	18.88	19.17	24.55	49.6	79.6	1.20	0.84	0.63
1.0	31.0	5.12	4.89	4.76	69.3	99.3	21.39	26.50	20.20	69.3	99.3	1.14	0.79	0.60
2.0	32.0	5.08	4.86	4.74	89.1	119.1	20.14	24.27	21.21	89.1	119.1	1.06	0.77	0.56
5.0	35.0	5.03	4.82	4.72	108.9	138.9	19.99	23.41	24.68	108.9	138.9	1.03	0.73	0.54
10.0	40.0	5.09	4.86	4.72	128.7	158.7	26.38	22.79	20.57	128.7	158.7	0.98	0.74	0.55
29.8	59.8	5.26	4.97	4.86	148.5	178.5	20.14	19.15	24.58	148.5	178.5	1.00	0.73	0.51
69.3	99.3	5.20	5.01	4.87	168.2	198.2	20.77	21.77	23.17	168.2	198.2	0.95	0.70	0.51
89.1	119.1	5.17	5.00	4.89	188.0	218.0	20.27	19.14	19.41	188.0	218.0	0.97	0.67	0.51
108.9	138.9	5.23	5.01	4.93	207.8	237.8	19.25	17.70	19.25	207.8	237.8	0.94	0.69	0.49
128.7	158.7	5.24	5.00	4.92	227.6	257.6	21.99	18.98	22.95	227.6	257.6	0.94	0.68	0.53
148.5	178.5	5.23	5.04	4.95	247.4	277.4	19.41	26.39	23.58	247.4	277.4	0.86	0.65	0.48
188.0	218.0	5.26	5.05	5.01	267.1	297.1	19.14	19.91	20.94	267.1	297.1	0.92	0.70	0.53
207.8	237.8	5.25	5.05	4.99	286.9	316.9	18.65	19.12	20.15	286.9	316.9	1.00	0.75	0.58
227.6	257.6	5.37	5.18	5.02	306.7	336.7	18.83	17.41	17.29	306.7	336.7	1.09	0.80	0.62
247.4	277.4	5.45	5.22	5.05	326.5	356.5	16.78	16.63	20.43	326.5	356.5	1.21	0.93	0.73
267.1	297.1	5.52	5.31	5.12	346.3	376.3	17.66	18.56	20.85	346.3	376.3	1.39	0.99	0.73
306.7	336.7	5.58	5.38	5.25	366.0	396.0	19.18	19.00	21.15	366.0	396.0	1.58	1.08	0.83
326.5	356.5	5.62	5.44	5.29	385.8	415.8	16.44	19.29	26.26	385.8	415.8	1.65	1.21	0.88
346.3	376.3	5.65	5.41	5.31	405.6	435.6	12.75	16.75	19.65	405.6	435.6	1.77	1.39	1.03
366.0	396.0	5.76	5.51	5.38	425.4	455.4	10.20	13.78	17.51	425.4	455.4	1.86	1.54	1.18
385.8	415.8	5.85	5.64	5.48	445.2	475.2	8.77	11.29	15.13	445.2	475.2	1.86	1.60	1.27
425.4	455.4	6.30	5.86	5.55	464.9	494.9	8.73	10.21	12.91	464.9	494.9	1.92	1.61	1.32
445.2	475.2	6.59	6.18	5.73	484.7	514.7	8.79	9.85	12.44	484.7	514.7	1.81	1.54	1.30
464.9	494.9	6.78	6.37	5.90	504.5	534.5	9.26	10.26	11.82	504.5	534.5	1.69	1.47	1.28
484.7	514.7	7.04	6.55	6.11	524.3	554.3	9.94	11.12	12.62	524.3	554.3	1.63	1.40	1.23
504.5	534.5	7.29	6.82	6.40	544.1	574.1	12.64	13.38	14.32	544.1	574.1	1.63	1.42	1.23
544.1	574.1	7.44	6.89	6.46	583.6	613.6	16.47	24.87	23.42	583.6	613.6	1.56	1.36	1.16
583.6	613.6	7.45	6.85	6.37	603.4	633.4	19.27	25.60	24.52	603.4	633.4	1.62	1.40	1.15
603.4	633.4	7.39	6.80	6.37	643.0	673.0	22.85	22.70	24.59	643.0	673.0	1.66	1.39	1.12
643.0	673.0	7.45	6.84	6.55	662.7	692.7	21.30	22.57	22.89	662.7	692.7	1.65	1.34	1.10
662.7	692.7	7.42	6.95	6.63	702.3	732.3	18.66	18.34	19.56	702.3	732.3	1.58	1.28	1.09
722.1	752.1	7.82	7.37	7.16	722.1	752.1	17.41	19.40	19.40	722.1	752.1	1.54	1.25	1.06
761.6	791.6	8.33	7.97	7.80	761.6	791.6	16.05	18.00	16.45	761.6	791.6	1.35	1.03	0.92
781.4	811.4	8.65	8.36	8.19	781.4	811.4	15.90	15.84	15.73	781.4	811.4	1.23	0.90	0.78
821.0	851.0	9.47	9.11	8.95	821.0	851.0	17.18	19.37	18.73	821.0	851.0	1.26	0.89	0.72
840.8	870.8	9.69	9.35	9.23	840.8	870.8	17.31	17.87	21.48	840.8	870.8	1.19	0.84	0.72
880.3	910.3	10.52	10.10	9.93	880.3	910.3	15.17	18.34	18.91	880.3	910.3	1.27	0.78	0.65
900.1	930.1	11.07	10.64	10.43	900.1	930.1	19.60	17.31	18.92	900.1	930.1	1.23	0.81	0.60

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=250.1MHz (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)=500.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
240.0	10.1	5.38	10.0	20.1	4.93	490.0	10.1	6.56
234.1	16.0	5.32	22.3	32.4	4.76	477.7	22.4	6.46
228.2	21.9	5.25	34.6	44.7	4.78	465.4	34.7	6.42
222.3	27.8	5.21	46.9	57.0	4.78	453.1	47.0	6.40
216.4	33.7	5.20	59.2	69.3	4.82	440.8	59.3	6.46
210.5	39.6	5.17	71.5	81.6	4.86	428.5	71.6	6.40
204.6	45.5	5.17	83.8	93.9	4.87	416.2	83.9	6.34
198.7	51.4	5.14	96.2	106.3	4.87	403.8	96.3	6.33
192.8	57.3	5.10	108.5	118.6	4.89	391.5	108.6	6.28
186.9	63.2	5.09	120.8	130.9	4.88	379.2	120.9	6.32
181.0	69.1	5.10	133.1	143.2	4.89	366.9	133.2	6.35
175.1	75.0	5.13	145.4	155.5	4.92	354.6	145.5	6.30
169.2	80.9	5.12	157.7	167.8	4.98	342.3	157.8	6.30
163.3	86.8	5.10	170.0	180.1	4.99	330.0	170.1	6.31
157.4	92.7	5.09	182.3	192.4	5.02	317.7	182.4	6.31
151.5	98.6	5.10	194.6	204.7	5.01	305.4	194.7	6.34
145.6	104.5	5.10	206.9	217.0	5.02	293.1	207.0	6.29
139.7	110.4	5.11	219.2	229.3	5.05	280.8	219.3	6.27
133.8	116.3	5.09	231.5	241.6	5.05	268.5	231.6	6.31
127.9	122.2	5.05	243.8	253.9	5.04	256.2	243.9	6.29
122.1	128.0	5.06	256.2	266.3	5.11	243.8	256.3	6.34
116.2	133.9	5.09	268.5	278.6	5.08	231.5	268.6	6.33
110.3	139.8	5.12	280.8	290.9	5.20	219.2	280.9	6.25
104.4	145.7	5.09	293.1	303.2	5.27	206.9	293.2	6.28
98.5	151.6	5.11	305.4	315.5	5.31	194.6	305.5	6.24
92.6	157.5	5.10	317.7	327.8	5.41	182.3	317.8	6.24
86.7	163.4	5.11	330.0	340.1	5.37	170.0	330.1	6.28
80.8	169.3	5.11	342.3	352.4	5.35	157.7	342.4	6.25
74.9	175.2	5.14	354.6	364.7	5.34	145.4	354.7	6.25
69.0	181.1	5.11	366.9	377.0	5.31	133.1	367.0	6.20
63.1	187.0	5.09	379.2	389.3	5.30	120.8	379.3	6.12
57.2	192.9	5.13	391.5	401.6	5.26	108.5	391.6	6.06
51.3	198.8	5.10	403.8	413.9	5.20	96.2	403.9	5.99
45.4	204.7	5.12	416.2	426.3	5.22	83.8	416.3	5.92
39.5	210.6	5.16	428.5	438.6	5.26	71.5	428.6	5.96
33.6	216.5	5.19	440.8	450.9	5.31	59.2	440.9	6.05
27.7	222.4	5.16	453.1	463.2	5.32	46.9	453.2	6.12
21.8	228.3	5.17	465.4	475.5	5.33	34.6	465.5	6.31
15.9	234.2	5.20	477.7	487.8	5.31	22.3	477.8	6.48
10.0	240.1	5.34	490.0	500.1	5.26	10.0	490.1	6.63

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10
0.1	64.00	67.00	70.00	64.00	67.00	66.23
0.2	64.00	67.00	70.00	64.00	67.00	65.77
0.5	64.00	67.00	70.00	64.00	67.00	65.50
1.0	64.00	67.00	70.00	64.00	67.00	65.49
2.0	64.00	67.00	70.00	64.00	67.00	65.24
5.0	64.00	67.00	70.00	64.00	67.00	64.20
10.0	64.00	67.00	64.53	64.00	67.00	60.90
29.8	56.69	57.88	58.78	60.05	62.59	63.97
69.3	51.36	52.40	52.33	55.23	56.44	57.08
89.1	49.28	50.07	50.51	53.06	53.98	55.16
108.9	47.91	48.65	48.97	51.54	52.45	53.43
128.7	46.75	47.51	47.62	49.33	50.94	51.98
148.5	45.48	46.27	46.50	47.40	49.13	50.49
188.0	43.47	43.86	44.04	45.47	47.14	48.66
207.8	42.85	43.08	43.32	43.92	45.74	47.20
227.6	42.61	42.84	43.01	42.85	44.42	46.12
247.4	42.15	42.40	42.66	42.77	44.04	45.52
267.1	41.65	42.24	42.58	42.04	43.31	44.40
306.7	39.22	39.88	40.39	41.94	44.07	45.71
326.5	38.12	38.96	39.55	41.20	42.66	43.42
346.3	37.67	38.49	39.30	40.17	41.19	41.49
366.0	36.90	37.94	39.01	39.27	39.61	39.23
385.8	36.90	38.10	39.19	38.28	38.37	37.83
425.4	37.91	38.86	39.63	37.63	37.21	36.44
445.2	37.98	39.20	40.20	37.34	36.73	35.63
464.9	37.39	38.46	39.14	37.02	36.35	34.97
484.7	37.11	38.50	39.70	36.09	35.48	34.11
504.5	37.30	38.40	39.25	35.52	34.50	33.08
544.1	37.27	38.17	38.73	34.18	32.66	31.01
583.6	36.42	36.65	36.61	32.98	30.93	28.74
603.4	36.60	36.84	36.84	32.01	29.65	27.30
643.0	36.63	36.18	35.53	29.25	26.44	24.16
662.7	37.94	36.80	35.78	27.84	25.29	23.27
722.1	42.68	37.41	34.57	22.70	21.23	19.76
761.6	45.19	36.28	32.76	20.28	19.40	18.21
781.4	40.33	34.79	31.56	19.11	18.38	17.25
821.0	33.06	31.16	28.77	17.31	16.96	15.94
840.8	30.25	29.39	27.48	16.56	16.43	15.59
880.3	26.95	26.84	25.53	15.57	15.58	14.76
900.1	25.45	25.63	24.64	15.04	15.23	14.51

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.0	40.0	40.35	38.69	35.95
29.8	59.8	34.10	34.26	34.85
49.6	79.6	30.61	30.48	31.21
69.3	99.3	27.89	28.32	28.37
89.1	119.1	26.43	26.63	27.02
108.9	138.9	25.20	25.62	25.78
128.7	158.7	24.36	24.73	24.91
148.5	178.5	24.01	24.32	24.51
168.2	198.2	23.79	24.13	24.55
188.0	218.0	23.52	24.03	24.63
207.8	237.8	23.28	23.78	24.34
227.6	257.6	23.39	23.98	24.49
247.4	277.4	23.65	24.06	24.46
267.1	297.1	24.23	24.65	25.04
286.9	316.9	25.14	25.83	26.33
306.7	336.7	25.37	26.35	27.14
326.5	356.5	25.28	26.50	27.59
346.3	376.3	23.98	24.86	25.55
366.0	396.0	22.31	22.61	22.74
385.8	415.8	20.98	20.99	20.86
405.6	435.6	19.71	19.48	19.24
425.4	455.4	19.02	18.86	18.52
445.2	475.2	18.24	18.12	17.84
464.9	494.9	17.92	17.79	17.56
484.7	514.7	17.67	17.61	17.47
504.5	534.5	17.53	17.38	17.19
524.3	554.3	17.82	17.65	17.46
544.1	574.1	17.76	17.55	17.29
583.6	613.6	17.73	17.33	16.88
603.4	633.4	17.42	16.95	16.46
643.0	673.0	16.52	15.98	15.55
662.7	692.7	15.90	15.42	15.01
702.3	732.3	14.53	14.07	13.68
722.1	752.1	13.93	13.42	13.03
761.6	791.6	12.42	11.94	11.52
781.4	811.4	11.72	11.25	10.81
821.0	851.0	10.55	9.90	9.52
840.8	870.8	9.89	9.34	8.86
880.3	910.3	8.80	8.32	7.85
900.1	930.1	8.30	7.85	7.47

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Frequency Mixer

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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=500.5MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
5.0	35.0	1.20	1.11	1.05	5.0	1.72	2.55	3.62	5.0	1.39	1.44	1.33
10.0	40.0	1.20	1.11	1.05	10.0	1.74	2.49	3.53	10.0	1.39	1.45	1.33
29.8	59.8	1.27	1.16	1.09	29.8	1.62	2.42	3.37	22.6	2.45	2.15	1.85
49.6	79.6	1.26	1.16	1.09	49.6	1.62	2.39	3.33	35.1	2.32	2.03	1.77
69.3	99.3	1.24	1.14	1.07	69.3	1.54	2.23	3.06	47.7	2.30	2.01	1.77
89.1	119.1	1.22	1.13	1.06	89.1	1.53	2.23	3.09	60.3	2.34	2.03	1.80
108.9	138.9	1.19	1.10	1.04	108.9	1.55	2.21	3.06	72.8	2.39	2.08	1.84
128.7	158.7	1.18	1.09	1.04	128.7	1.59	2.31	3.18	85.4	2.39	2.09	1.84
148.5	178.5	1.17	1.08	1.04	148.5	1.60	2.30	3.13	97.9	2.40	2.11	1.85
168.2	198.2	1.15	1.06	1.04	168.2	1.58	2.23	3.01	110.5	2.44	2.15	1.89
188.0	218.0	1.12	1.06	1.04	188.0	1.58	2.24	3.03	123.1	2.50	2.19	1.93
207.8	237.8	1.10	1.04	1.04	207.8	1.62	2.28	3.08	135.6	2.53	2.21	1.96
227.6	257.6	1.11	1.05	1.04	227.6	1.67	2.34	3.16	148.2	2.51	2.20	1.96
247.4	277.4	1.10	1.05	1.08	247.4	1.68	2.32	3.10	160.8	2.46	2.18	1.94
267.1	297.1	1.09	1.05	1.09	267.1	1.68	2.32	3.09	173.3	2.45	2.17	1.92
286.9	316.9	1.07	1.06	1.11	286.9	1.70	2.31	3.04	185.9	2.52	2.23	1.97
306.7	336.7	1.05	1.07	1.12	306.7	1.75	2.39	3.15	198.5	2.58	2.31	2.03
326.5	356.5	1.03	1.09	1.16	326.5	1.79	2.42	3.19	211.0	2.61	2.34	2.05
346.3	376.3	1.04	1.13	1.19	346.3	1.80	2.41	3.15	223.6	2.58	2.30	2.03
366.0	396.0	1.03	1.13	1.18	366.0	1.84	2.46	3.23	236.2	2.54	2.27	2.02
385.8	415.8	1.03	1.10	1.15	385.8	1.84	2.42	3.12	248.7	2.54	2.28	2.04
405.6	435.6	1.06	1.06	1.09	405.6	1.93	2.50	3.21	261.3	2.61	2.33	2.08
425.4	455.4	1.13	1.05	1.02	425.4	2.01	2.58	3.27	273.8	2.62	2.36	2.11
445.2	475.2	1.21	1.13	1.07	445.2	2.04	2.61	3.29	286.4	2.58	2.34	2.11
464.9	494.9	1.32	1.24	1.17	464.9	2.09	2.69	3.38	299.0	2.55	2.31	2.07
484.7	514.7	1.44	1.36	1.29	484.7	2.09	2.68	3.37	311.5	2.55	2.30	2.06
504.5	534.5	1.57	1.48	1.41	504.5	2.13	2.73	3.46	324.1	2.58	2.34	2.09
524.3	554.3	1.68	1.59	1.52	524.3	2.16	2.76	3.46	336.7	2.63	2.37	2.14
544.1	574.1	1.76	1.67	1.60	544.1	2.17	2.77	3.48	349.2	2.63	2.37	2.14
583.6	613.6	1.91	1.81	1.76	583.6	2.20	2.76	3.43	361.8	2.59	2.34	2.10
603.4	633.4	2.00	1.91	1.87	603.4	2.23	2.79	3.46	374.4	2.52	2.29	2.07
643.0	673.0	2.20	2.11	2.08	643.0	2.28	2.82	3.48	386.9	2.52	2.28	2.05
662.7	692.7	2.28	2.18	2.15	662.7	2.25	2.75	3.39	399.5	2.57	2.32	2.07
702.3	732.3	2.38	2.29	2.23	702.3	2.38	2.87	3.49	412.1	2.57	2.33	2.09
722.1	752.1	2.44	2.35	2.30	722.1	2.46	2.92	3.52	424.6	2.53	2.30	2.08
761.6	791.6	2.60	2.51	2.46	761.6	2.66	3.04	3.58	437.2	2.53	2.27	2.04
781.4	811.4	2.68	2.60	2.54	781.4	2.80	3.16	3.68	449.7	2.54	2.27	2.04
821.0	851.0	2.83	2.74	2.68	821.0	3.04	3.34	3.79	462.3	2.54	2.28	2.05
840.8	870.8	2.86	2.76	2.69	840.8	3.13	3.36	3.77	474.9	2.54	2.27	2.04
880.3	910.3	2.83	2.75	2.70	880.3	3.27	3.50	3.86	487.4	2.52	2.25	2.01
900.1	930.1	2.83	2.74	2.71	900.1	3.28	3.54	3.88	500.0	2.36	2.12	1.91

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	19	23	14	38	26	37	37	48	49	66
1	-	20	+0	27	11	34	24	43	42	54	47	60
2	>100	67	57	68	58	66	68	>81	66	71	75	>81
3	>100	75	65	75	64	73	60	76	>81	>81	78	>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	77	>81	>81	>81
9	>100	>81	>81	>81	>81	>81	>81	>81	>81	61	>81	>81
10	>100	>81	>81	>81	>81	>81	>81	>81	>81	>81	73	>81
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 250.1 MHz; -14.00 dBm.
LO IN: 280.01 MHz; +7.00 dBm
IF OUT: 29.91 MHz; -19.3 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	29	33	24	47	38	50	50	58	67	81
1	-	21	+0	28	12	34	26	48	43	61	53	64
2	94	54	51	56	51	56	58	66	61	65	67	77
3	>100	54	40	50	43	51	38	56	50	59	60	71
4	>100	73	70	75	64	75	63	77	68	88	76	79
5	>100	75	66	61	52	66	52	64	53	65	69	76
6	>100	>91	>91	87	86	87	79	80	74	81	78	>91
7	>100	>91	87	88	80	73	67	80	66	75	63	76
8	>100	>91	>91	>91	>91	88	>91	>91	>91	89	87	>91
9	>100	>91	>91	>91	>91	>91	82	83	81	72	79	>91
10	>100	>91	>91	>91	>91	>91	>91	>91	>91	>91	78	>91
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 250.1 MHz; -4.00 dBm.
LO IN: 280.01 MHz; +7.00 dBm
IF OUT: 29.91 MHz; -9.36 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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