

Frequency Mixer

SAM-2

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
1.0	31.0	7.65	7.23	7.05	10.0	40.0	21.82	24.35	25.68	10.0	40.0	0.94	0.68	0.53
2.0	32.0	6.99	6.50	6.38	50.3	80.3	21.70	26.09	25.64	50.3	80.3	1.09	0.84	0.68
5.0	35.0	6.14	5.80	5.68	90.5	120.5	19.29	23.97	25.72	90.5	120.5	0.98	0.75	0.59
10.0	40.0	6.01	5.62	5.47	130.8	160.8	21.66	23.57	20.62	130.8	160.8	0.96	0.71	0.55
50.3	80.3	6.07	5.82	5.65	171.0	201.0	21.70	24.84	21.77	171.0	201.0	0.96	0.70	0.53
90.5	120.5	6.11	5.80	5.70	211.3	241.3	22.23	20.60	21.02	211.3	241.3	0.87	0.64	0.48
130.8	160.8	6.05	5.81	5.69	251.5	281.5	22.73	19.31	22.40	251.5	281.5	0.87	0.62	0.49
171.0	201.0	6.08	5.86	5.73	291.8	321.8	20.09	20.68	22.99	291.8	321.8	0.88	0.65	0.51
211.3	241.3	6.06	5.84	5.75	332.0	362.0	17.55	17.65	26.08	332.0	362.0	0.82	0.59	0.48
251.5	281.5	6.12	5.92	5.76	372.3	402.3	25.75	24.40	21.04	372.3	402.3	0.81	0.62	0.48
332.0	362.0	6.19	5.96	5.84	412.6	442.6	25.89	25.48	25.50	412.6	442.6	0.89	0.68	0.55
372.3	402.3	6.21	6.00	5.85	452.8	482.8	17.52	25.92	22.78	452.8	482.8	0.99	0.79	0.64
412.6	442.6	6.22	5.97	5.83	493.1	523.1	15.81	17.72	21.41	493.1	523.1	1.17	0.94	0.75
452.8	482.8	6.34	6.08	5.94	533.3	563.3	14.86	16.42	18.27	533.3	563.3	1.36	1.09	0.93
493.1	523.1	6.40	6.17	6.03	573.6	603.6	17.28	24.00	20.85	573.6	603.6	1.57	1.25	1.05
533.3	563.3	6.51	6.29	6.18	613.8	643.8	18.69	24.01	22.25	613.8	643.8	1.75	1.42	1.21
573.6	603.6	6.62	6.35	6.24	654.1	684.1	17.80	20.70	25.56	654.1	684.1	1.87	1.59	1.39
613.8	643.8	6.73	6.44	6.27	694.3	724.3	13.60	19.36	25.80	694.3	724.3	1.94	1.71	1.46
654.1	684.1	7.00	6.54	6.34	734.6	764.6	13.28	17.08	24.55	734.6	764.6	1.81	1.69	1.49
694.3	724.3	7.31	6.70	6.41	774.9	804.9	13.85	19.73	19.70	774.9	804.9	1.70	1.66	1.54
774.9	804.9	7.84	7.06	6.53	815.1	845.1	12.90	15.22	20.04	815.1	845.1	1.49	1.48	1.43
815.1	845.1	8.16	7.36	6.73	855.4	885.4	11.97	14.50	16.79	855.4	885.4	1.35	1.29	1.28
855.4	885.4	8.36	7.68	7.05	895.6	925.6	12.49	13.98	14.82	895.6	925.6	1.31	1.20	1.15
895.6	925.6	8.43	7.78	7.25	935.9	965.9	11.35	12.29	14.78	935.9	965.9	1.36	1.27	1.22
935.9	965.9	8.44	7.76	7.16	976.1	1006.1	12.25	15.61	16.19	976.1	1006.1	1.65	1.56	1.44
976.1	1006.1	8.01	7.19	6.66	1016.4	1046.4	14.75	16.70	18.17	1016.4	1046.4	1.83	1.66	1.48
1016.4	1046.4	7.71	7.04	6.66	1056.6	1086.6	16.58	17.78	20.96	1056.6	1086.6	1.86	1.67	1.49
1056.6	1086.6	7.54	7.04	6.75	1096.9	1126.9	19.18	18.80	18.41	1096.9	1126.9	1.62	1.45	1.32
1096.9	1126.9	7.77	7.37	7.11	1137.2	1167.2	18.12	18.22	19.52	1137.2	1167.2	1.26	1.09	1.02
1137.2	1167.2	8.03	7.75	7.50	1177.4	1207.4	16.57	19.54	19.67	1177.4	1207.4	1.06	0.87	0.76
1217.7	1247.7	8.44	8.18	8.08	1217.7	1247.7	19.26	19.36	22.71	1217.7	1247.7	0.96	0.75	0.65
1257.9	1287.9	8.53	8.32	8.21	1257.9	1287.9	18.61	23.18	24.90	1257.9	1287.9	0.91	0.69	0.55
1298.2	1328.2	8.73	8.47	8.36	1298.2	1328.2	19.85	23.56	20.81	1298.2	1328.2	0.81	0.59	0.44
1338.4	1368.4	8.94	8.68	8.57	1338.4	1368.4	21.77	23.94	20.84	1338.4	1368.4	0.72	0.48	0.39
1378.7	1408.7	9.25	9.00	8.85	1378.7	1408.7	19.78	24.50	24.10	1378.7	1408.7	0.68	0.44	0.34
1418.9	1448.9	9.48	9.23	9.08	1418.9	1448.9	24.26	23.91	18.14	1418.9	1448.9	0.59	0.40	0.29
1459.2	1489.2	9.66	9.38	9.24	1459.2	1489.2	20.24	20.04	21.68	1459.2	1489.2	0.58	0.39	0.29
1499.5	1529.5	9.91	9.55	9.46	1499.5	1529.5	18.06	18.82	22.42	1499.5	1529.5	0.57	0.38	0.30
1539.7	1569.7	10.15	9.78	9.69	1539.7	1569.7	19.99	24.11	23.86	1539.7	1569.7	0.61	0.42	0.35
1600.1	1630.1	10.60	10.23	10.08	1600.1	1630.1	17.98	21.49	20.30	1600.1	1630.1	0.70	0.55	0.51

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Frequency Mixer

SAM-2

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=500.1MHz (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)=1000.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
490.0	10.1	6.25	10.0	20.1	5.48	990.0	10.1	7.72
477.7	22.4	6.21	30.0	40.1	5.46	970.0	30.1	7.77
465.4	34.7	6.15	50.0	60.1	5.52	950.0	50.1	7.76
453.1	47.0	6.15	70.0	80.1	5.54	930.0	70.1	7.85
440.8	59.3	6.14	90.0	100.1	5.57	910.0	90.1	7.89
428.5	71.6	6.11	110.0	120.1	5.56	890.0	110.1	7.88
416.2	83.9	6.08	130.0	140.1	5.55	870.0	130.1	7.87
403.8	96.3	6.05	150.0	160.1	5.56	850.0	150.1	7.93
391.5	108.6	6.00	170.0	180.1	5.60	830.0	170.1	8.01
379.2	120.9	6.03	190.0	200.1	5.65	810.0	190.1	7.93
366.9	133.2	6.03	210.0	220.1	5.60	790.0	210.1	7.94
354.6	145.5	6.00	230.0	240.1	5.62	770.0	230.1	7.90
342.3	157.8	6.02	250.0	260.1	5.65	750.0	250.1	7.87
330.0	170.1	6.05	270.0	280.1	5.66	730.0	270.1	7.94
317.7	182.4	6.03	290.0	300.1	5.69	710.0	290.1	7.91
305.4	194.7	6.07	310.0	320.1	5.68	690.0	310.1	7.89
293.1	207.0	6.04	330.0	340.1	5.74	670.0	330.1	7.76
280.8	219.3	6.04	350.0	360.1	5.73	650.0	350.1	7.78
268.5	231.6	6.06	370.0	380.1	5.79	630.0	370.1	7.84
256.2	243.9	6.05	390.0	400.1	5.77	610.0	390.1	7.82
243.8	256.3	6.09	430.0	440.1	5.78	570.0	430.1	7.54
231.5	268.6	6.11	450.0	460.1	5.80	550.0	450.1	7.56
219.2	280.9	6.05	490.0	500.1	5.96	510.0	490.1	7.64
206.9	293.2	6.12	510.0	520.1	6.02	490.0	510.1	7.71
194.6	305.5	6.12	550.0	560.1	6.11	450.0	550.1	7.81
182.3	317.8	6.09	570.0	580.1	6.15	430.0	570.1	7.70
170.0	330.1	6.12	610.0	620.1	5.98	390.0	610.1	7.18
157.7	342.4	6.12	630.0	640.1	5.99	370.0	630.1	7.09
145.4	354.7	6.11	670.0	680.1	5.94	330.0	670.1	7.02
133.1	367.0	6.16	690.0	700.1	5.87	310.0	690.1	7.03
120.8	379.3	6.14	730.0	740.1	5.93	270.0	730.1	7.07
108.5	391.6	6.12	750.0	760.1	5.91	250.0	750.1	7.07
96.2	403.9	6.12	790.0	800.1	5.92	210.0	790.1	7.18
83.8	416.3	6.09	810.0	820.1	5.96	190.0	810.1	7.24
71.5	428.6	6.07	850.0	860.1	6.06	150.0	850.1	7.52
59.2	440.9	6.09	870.0	880.1	6.02	130.0	870.1	7.71
46.9	453.2	6.07	910.0	920.1	5.98	90.0	910.1	7.88
34.6	465.5	6.11	930.0	940.1	5.88	70.0	930.1	7.92
22.3	477.8	6.17	970.0	980.1	5.69	30.0	970.1	7.83
10.0	490.1	6.19	990.0	1000.1	5.56	10.0	990.1	7.70

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10
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	70.00
50.3	58.83	59.58	60.62	63.91	62.49	60.15
90.5	53.56	54.56	55.32	60.10	58.23	56.27
130.8	50.63	51.54	52.12	57.11	55.71	53.73
171.0	48.20	48.90	49.58	54.99	54.01	52.28
211.3	46.45	47.16	47.90	51.79	52.20	50.83
251.5	44.96	45.79	46.42	49.64	50.62	49.87
332.0	42.46	43.25	43.96	45.41	47.43	48.26
372.3	41.93	42.97	43.76	43.70	45.75	46.47
412.6	41.42	42.20	43.02	41.91	44.59	46.71
452.8	40.49	41.55	42.29	41.76	44.57	46.76
493.1	39.58	40.82	41.74	41.46	44.65	46.98
533.3	38.76	39.88	40.91	40.72	43.70	46.06
573.6	37.83	39.21	40.52	39.61	42.85	46.53
613.8	37.88	40.00	41.91	38.06	40.84	43.95
654.1	38.36	40.47	42.17	36.32	38.64	41.05
694.3	37.89	39.81	41.46	35.43	37.39	39.58
774.9	36.52	38.55	40.28	34.73	36.10	37.61
815.1	36.06	38.13	39.96	35.00	36.36	37.60
855.4	35.53	37.59	39.61	35.03	37.11	38.72
895.6	35.22	37.14	39.15	34.39	36.42	38.26
935.9	34.31	35.92	37.46	32.90	33.72	34.27
976.1	33.65	34.82	35.89	31.08	30.79	30.40
1016.4	32.69	33.59	34.57	29.26	28.34	28.11
1056.6	32.44	33.34	34.34	27.85	27.22	27.08
1096.9	32.84	33.65	34.42	27.19	26.58	26.19
1137.2	33.62	34.20	34.68	26.56	25.78	25.18
1217.7	36.23	35.92	35.42	25.43	24.32	23.55
1257.9	36.95	36.01	35.10	24.56	23.53	22.77
1298.2	37.41	35.80	34.56	24.09	23.01	22.21
1338.4	37.82	35.26	33.72	23.50	22.42	21.63
1378.7	38.45	35.01	33.16	22.98	21.99	21.21
1418.9	38.79	34.51	32.34	22.43	21.64	20.78
1459.2	38.12	33.65	31.55	22.03	21.28	20.50
1499.5	38.06	33.11	31.03	21.58	20.87	20.22
1539.7	36.63	32.54	30.42	21.33	20.77	20.03
1600.1	35.89	32.26	30.22	20.84	20.62	20.10

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.0	40.0	49.67	42.04	60.70
50.3	80.3	36.14	35.89	36.11
90.5	120.5	31.49	31.88	31.98
130.8	160.8	29.11	29.37	29.58
171.0	201.0	27.56	27.86	28.01
211.3	241.3	26.57	26.86	27.08
251.5	281.5	26.14	26.48	26.74
291.8	321.8	25.92	26.48	26.91
332.0	362.0	26.06	26.61	27.03
372.3	402.3	25.89	26.24	26.54
412.6	442.6	25.46	26.08	26.51
452.8	482.8	24.95	25.87	26.73
493.1	523.1	24.51	25.36	26.22
533.3	563.3	23.71	24.24	24.60
573.6	603.6	22.35	22.47	22.49
613.8	643.8	20.59	20.34	20.15
654.1	684.1	19.27	18.96	18.76
694.3	724.3	18.64	18.28	18.09
734.6	764.6	18.36	18.14	17.94
774.9	804.9	18.31	18.11	17.94
815.1	845.1	18.52	18.27	18.00
855.4	885.4	18.75	18.46	18.10
895.6	925.6	19.05	18.75	18.43
935.9	965.9	19.20	18.90	18.51
976.1	1006.1	18.86	18.30	17.75
1016.4	1046.4	18.14	17.66	17.27
1056.6	1086.6	17.39	17.00	16.55
1096.9	1126.9	16.45	16.06	15.77
1137.2	1167.2	15.44	15.01	14.70
1177.4	1207.4	14.33	13.89	13.59
1217.7	1247.7	13.40	12.85	12.53
1257.9	1287.9	12.54	11.99	11.67
1298.2	1328.2	11.71	11.16	10.83
1338.4	1368.4	10.82	10.30	10.01
1378.7	1408.7	10.18	9.67	9.39
1418.9	1448.9	9.56	9.13	8.87
1459.2	1489.2	9.05	8.67	8.48
1499.5	1529.5	8.66	8.30	8.05
1539.7	1569.7	8.23	7.95	7.79
1600.1	1630.1	7.80	7.60	7.48



Frequency Mixer

SAM-2

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1000.5MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
5.0	35.0	1.26	1.30	1.34	5.0	1.77	2.70	4.33	5.0	1.43	1.24	1.09
10.0	40.0	1.12	1.15	1.20	10.0	1.71	2.63	3.91	10.0	1.44	1.25	1.10
50.3	80.3	1.03	1.09	1.14	50.3	1.97	2.86	4.02	30.2	1.91	1.60	1.40
90.5	120.5	1.06	1.13	1.18	90.5	1.83	2.66	3.70	50.4	1.88	1.57	1.35
130.8	160.8	1.10	1.17	1.22	130.8	1.90	2.75	3.81	70.6	1.96	1.63	1.41
171.0	201.0	1.12	1.19	1.24	171.0	1.84	2.60	3.56	90.8	1.96	1.65	1.44
211.3	241.3	1.15	1.21	1.27	211.3	1.86	2.63	3.58	111.0	2.00	1.67	1.46
251.5	281.5	1.16	1.22	1.28	251.5	1.89	2.65	3.60	131.2	2.06	1.72	1.50
291.8	321.8	1.16	1.23	1.28	291.8	1.86	2.56	3.45	151.4	2.03	1.70	1.49
332.0	362.0	1.15	1.21	1.26	332.0	1.93	2.65	3.54	171.6	2.00	1.68	1.46
372.3	402.3	1.15	1.20	1.24	372.3	1.93	2.68	3.54	191.8	2.09	1.75	1.53
412.6	442.6	1.17	1.24	1.29	412.6	1.94	2.61	3.43	212.0	2.16	1.82	1.59
452.8	482.8	1.17	1.24	1.30	452.8	1.96	2.61	3.38	232.2	2.13	1.79	1.56
493.1	523.1	1.17	1.22	1.28	493.1	1.98	2.62	3.38	252.4	2.14	1.79	1.56
533.3	563.3	1.14	1.19	1.23	533.3	2.02	2.66	3.41	272.7	2.21	1.86	1.63
573.6	603.6	1.10	1.15	1.18	573.6	1.99	2.57	3.27	292.9	2.22	1.88	1.66
613.8	643.8	1.04	1.07	1.10	613.8	2.02	2.58	3.28	313.1	2.22	1.88	1.65
654.1	684.1	1.11	1.08	1.07	654.1	2.09	2.67	3.31	333.3	2.29	1.94	1.69
694.3	724.3	1.24	1.20	1.17	694.3	2.14	2.67	3.31	353.5	2.34	1.99	1.74
734.6	764.6	1.38	1.33	1.29	734.6	2.20	2.72	3.33	373.7	2.31	1.96	1.72
774.9	804.9	1.53	1.46	1.42	774.9	2.21	2.72	3.31	393.9	2.32	1.97	1.73
815.1	845.1	1.70	1.63	1.57	815.1	2.25	2.77	3.35	434.3	2.42	2.07	1.82
855.4	885.4	1.89	1.81	1.74	855.4	2.25	2.75	3.34	454.5	2.42	2.07	1.81
895.6	925.6	2.02	1.95	1.88	895.6	2.23	2.73	3.30	494.9	2.48	2.13	1.88
935.9	965.9	2.14	2.06	1.98	935.9	2.23	2.72	3.27	515.1	2.44	2.10	1.85
976.1	1006.1	2.20	2.10	2.03	976.1	2.14	2.60	3.13	555.5	2.59	2.24	1.97
1016.4	1046.4	2.22	2.15	2.09	1016.4	2.07	2.53	3.09	575.7	2.54	2.21	1.95
1056.6	1086.6	2.26	2.20	2.14	1056.6	2.06	2.51	3.07	616.1	2.48	2.16	1.92
1096.9	1126.9	2.32	2.25	2.20	1096.9	2.11	2.55	3.08	636.3	2.53	2.21	1.96
1137.2	1167.2	2.39	2.34	2.30	1137.2	2.20	2.61	3.13	676.7	2.55	2.23	1.98
1177.4	1207.4	2.44	2.41	2.38	1177.4	2.29	2.66	3.14	696.9	2.49	2.18	1.94
1217.7	1247.7	2.48	2.46	2.43	1217.7	2.38	2.71	3.17	737.3	2.33	2.04	1.83
1257.9	1287.9	2.49	2.47	2.45	1257.9	2.48	2.82	3.25	757.6	2.41	2.12	1.90
1298.2	1328.2	2.50	2.47	2.46	1298.2	2.53	2.84	3.25	798.0	2.27	1.98	1.77
1338.4	1368.4	2.53	2.51	2.49	1338.4	2.60	2.87	3.26	818.2	2.16	1.89	1.69
1378.7	1408.7	2.56	2.53	2.50	1378.7	2.67	2.90	3.27	858.6	2.13	1.86	1.67
1418.9	1448.9	2.56	2.53	2.51	1418.9	2.73	2.93	3.29	878.8	2.14	1.87	1.68
1459.2	1489.2	2.54	2.51	2.50	1459.2	2.81	3.00	3.35	919.2	1.96	1.70	1.51
1499.5	1529.5	2.54	2.52	2.50	1499.5	2.86	3.02	3.35	939.4	1.85	1.60	1.43
1539.7	1569.7	2.58	2.57	2.55	1539.7	2.94	3.11	3.42	979.8	1.91	1.66	1.49
1600.1	1630.1	2.67	2.65	2.65	1600.1	3.00	3.14	3.42	1000.0	1.69	1.44	1.27

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	17	23	18	30	18	42	39	55	59	65
1	-	19	+0	31	11	30	33	45	40	39	61	56
2	>100	68	69	63	72	65	70	71	60	71	71	>80
3	>100	60	56	62	58	66	56	66	>80	>80	71	77
4	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
5	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
6	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
7	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
8	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
9	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
10	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 500.1 MHz; -14.00 dBm.
 LO IN: 530.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -20.26 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	27	34	29	41	30	55	54	67	68	76
1	-	20	+0	28	12	32	34	50	45	45	63	63
2	98	56	56	56	56	57	56	60	52	67	64	75
3	>100	42	38	50	41	59	40	52	63	61	53	58
4	>100	83	78	79	72	72	70	71	74	84	72	81
5	>100	76	88	65	55	61	53	61	53	63	75	80
6	>100	88	>90	>90	85	>90	88	89	83	>90	>90	>90
7	>100	87	87	>90	88	85	75	82	71	79	69	76
8	>100	>90	>90	>90	>90	>90	>90	>90	>90	>90	>90	>90
9	>100	>90	>90	>90	>90	>90	>90	>90	89	>90	88	>90
10	>100	>90	>90	>90	>90	>90	>90	>90	>90	>90	>90	>90
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 500.1 MHz; -4.00 dBm.
 LO IN: 530.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -10.25 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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