

Frequency Mixer

LRMS-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
5.0	35.0	7.36	6.93	6.73	10.1	40.1	18.69	23.41	24.55	10.1	40.1	0.83	0.70	0.41
10.0	40.0	7.46	7.00	6.77	50.1	80.1	19.31	18.89	18.14	50.1	80.1	0.89	0.64	0.41
50.1	80.1	7.31	6.87	6.66	90.1	120.1	17.00	17.01	22.84	90.1	120.1	0.99	0.57	0.41
90.1	120.1	7.34	6.95	6.77	130.1	160.1	17.03	19.38	24.21	130.1	160.1	0.86	0.73	0.45
130.1	160.1	7.37	6.98	6.82	170.1	200.1	17.80	23.69	21.11	170.1	200.1	0.91	0.60	0.47
170.1	200.1	7.36	7.04	6.87	210.1	240.1	18.58	22.83	20.22	210.1	240.1	0.85	0.60	0.42
210.1	240.1	7.34	7.01	6.86	250.1	280.1	18.64	19.52	19.83	250.1	280.1	0.88	0.62	0.46
250.1	280.1	7.36	7.06	6.88	290.1	320.1	17.75	17.49	19.02	290.1	320.1	0.93	0.64	0.49
290.1	320.1	7.38	7.03	6.86	330.1	360.1	18.30	18.13	18.92	330.1	360.1	0.89	0.71	0.55
330.1	360.1	7.43	7.11	6.93	370.1	400.1	16.85	19.83	16.97	370.1	400.1	0.95	0.66	0.60
370.1	400.1	7.48	7.15	6.93	410.1	440.1	15.92	18.12	18.73	410.1	440.1	1.03	0.61	0.61
410.1	440.1	7.56	7.14	6.98	450.1	480.1	15.45	19.09	18.74	450.1	480.1	0.99	0.73	0.59
450.1	480.1	7.53	7.22	6.98	490.1	520.1	15.28	15.28	15.65	490.1	520.1	1.11	0.85	0.62
490.1	520.1	7.56	7.18	6.98	530.1	560.1	13.52	14.47	15.68	530.1	560.1	1.09	0.74	0.65
530.1	560.1	7.57	7.14	6.92	570.1	600.1	13.92	15.01	15.28	570.1	600.1	1.18	0.83	0.74
570.1	600.1	7.56	7.17	6.94	610.1	640.1	15.15	16.42	14.93	610.1	640.1	1.06	0.90	0.66
610.1	640.1	7.64	7.25	7.02	650.1	680.1	15.76	17.02	18.15	650.1	680.1	1.36	1.02	0.85
650.1	680.1	7.74	7.36	7.12	690.1	720.1	14.92	18.01	16.77	690.1	720.1	1.36	0.96	0.79
690.1	720.1	7.80	7.40	7.15	730.1	760.1	15.04	17.82	15.19	730.1	760.1	1.38	1.03	0.88
730.1	760.1	7.84	7.39	7.16	750.1	780.1	14.13	16.36	15.98	750.1	780.1	1.41	1.08	0.93
750.1	780.1	7.85	7.41	7.11	790.1	820.1	14.26	14.85	15.78	790.1	820.1	1.36	1.13	0.95
790.1	820.1	7.99	7.45	7.16	810.1	840.1	13.97	14.27	14.18	810.1	840.1	1.47	1.33	1.12
810.1	840.1	8.07	7.52	7.19	850.1	880.1	12.87	13.59	14.01	850.1	880.1	1.43	1.26	1.12
850.1	880.1	8.26	7.68	7.31	870.1	900.1	12.50	12.86	13.55	870.1	900.1	1.39	1.11	1.09
870.1	900.1	8.38	7.78	7.37	910.1	940.1	11.98	12.89	12.64	910.1	940.1	1.40	1.24	1.18
910.1	940.1	8.55	7.93	7.51	930.1	960.1	12.23	14.08	12.51	930.1	960.1	1.28	1.14	0.95
930.1	960.1	8.61	7.97	7.58	970.1	1000.1	10.88	12.51	10.92	970.1	1000.1	1.36	1.31	1.22
970.1	1000.1	8.79	8.22	7.81	990.1	1020.1	10.84	12.38	10.66	990.1	1020.1	1.44	1.10	1.15
990.1	1020.1	8.86	8.31	7.84	1030.1	1060.1	10.93	11.51	10.92	1030.1	1060.1	1.29	0.98	0.97
1050.1	1080.1	9.10	8.61	8.24	1050.1	1080.1	10.52	11.54	11.37	1050.1	1080.1	1.26	1.00	0.85
1090.1	1120.1	9.18	8.78	8.46	1090.1	1120.1	11.15	11.68	12.39	1090.1	1120.1	1.23	0.89	0.87
1110.1	1140.1	9.23	8.81	8.49	1110.1	1140.1	11.72	12.37	13.76	1110.1	1140.1	1.18	0.90	0.85
1150.1	1180.1	9.37	8.97	8.72	1150.1	1180.1	12.13	13.39	15.05	1150.1	1180.1	1.22	0.92	0.81
1170.1	1200.1	9.39	9.05	8.81	1170.1	1200.1	12.06	12.91	15.11	1170.1	1200.1	1.18	0.98	0.87
1210.1	1240.1	9.51	9.14	8.94	1210.1	1240.1	11.75	12.54	13.09	1210.1	1240.1	1.21	0.80	0.84
1230.1	1260.1	9.62	9.28	9.08	1230.1	1260.1	11.39	12.34	12.92	1230.1	1260.1	1.18	0.95	0.77
1270.1	1300.1	9.81	9.43	9.28	1270.1	1300.1	10.73	11.98	13.13	1270.1	1300.1	1.22	0.95	0.72
1290.1	1320.1	9.88	9.56	9.46	1290.1	1320.1	10.53	12.13	12.12	1290.1	1320.1	1.12	0.87	0.72
1330.1	1360.1	10.14	9.87	9.75	1330.1	1360.1	10.62	11.83	12.87	1330.1	1360.1	1.34	0.83	0.69
1350.1	1380.1	10.28	9.92	9.87	1350.1	1380.1	10.47	12.10	12.59	1350.1	1380.1	1.18	0.75	0.68

REV. X2
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IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED • RoHS compliant
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Frequency Mixer

LRMS-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	7.16	10.0	20.1	6.84	990.0	10.1	8.23
477.7	22.4	7.17	30.2	40.3	6.50	970.0	30.1	8.18
465.4	34.7	7.15	50.4	60.5	6.55	950.0	50.1	8.17
453.1	47.0	7.14	70.6	80.7	6.54	930.0	70.1	8.15
440.8	59.3	7.15	90.8	100.9	6.54	910.0	90.1	8.10
428.5	71.6	7.12	111.0	121.1	6.53	890.0	110.1	8.06
416.2	83.9	7.08	131.2	141.3	6.52	870.0	130.1	8.00
403.8	96.3	7.06	151.4	161.5	6.62	850.0	150.1	7.99
391.5	108.6	7.06	171.6	181.7	6.60	830.0	170.1	7.96
379.2	120.9	7.04	191.8	201.9	6.65	810.0	190.1	7.93
366.9	133.2	6.99	212.0	222.1	6.63	790.0	210.1	7.91
354.6	145.5	6.99	232.2	242.3	6.70	770.0	230.1	7.88
342.3	157.8	7.00	252.4	262.5	6.73	750.0	250.1	7.83
330.0	170.1	6.98	272.7	282.8	6.72	730.0	270.1	7.84
317.7	182.4	6.99	292.9	303.0	6.79	710.0	290.1	7.84
305.4	194.7	6.98	313.1	323.2	6.81	690.0	310.1	7.80
293.1	207.0	6.98	333.3	343.4	6.83	670.0	330.1	7.79
280.8	219.3	6.97	353.5	363.6	6.83	650.0	350.1	7.79
268.5	231.6	6.96	373.7	383.8	6.90	630.0	370.1	7.77
256.2	243.9	6.98	393.9	404.0	6.94	610.0	390.1	7.76
243.8	256.3	6.92	434.3	444.4	6.97	570.0	430.1	7.73
231.5	268.6	6.88	454.5	464.6	7.00	550.0	450.1	7.72
219.2	280.9	6.88	494.9	505.0	7.02	510.0	490.1	7.72
206.9	293.2	6.98	515.1	525.2	7.05	490.0	510.1	7.66
194.6	305.5	6.96	555.5	565.6	7.08	450.0	550.1	7.67
182.3	317.8	6.96	575.7	585.8	7.14	430.0	570.1	7.69
170.0	330.1	6.97	616.1	626.2	7.22	390.0	610.1	7.67
157.7	342.4	6.93	636.3	646.4	7.24	370.0	630.1	7.70
145.4	354.7	6.98	676.7	686.8	7.26	330.0	670.1	7.68
133.1	367.0	6.99	696.9	707.0	7.26	310.0	690.1	7.66
120.8	379.3	7.01	737.3	747.4	7.25	270.0	730.1	7.68
108.5	391.6	6.99	757.6	767.7	7.25	250.0	750.1	7.70
96.2	403.9	7.01	798.0	808.1	7.33	210.0	790.1	7.68
83.8	416.3	7.00	818.2	828.3	7.37	190.0	810.1	7.71
71.5	428.6	7.04	858.6	868.7	7.47	150.0	850.1	7.78
59.2	440.9	7.04	878.8	888.9	7.62	130.0	870.1	7.78
46.9	453.2	7.04	919.2	929.3	7.70	90.0	910.1	7.92
34.6	465.5	7.07	939.4	949.5	7.78	70.0	930.1	7.96
22.3	477.8	7.10	979.8	989.9	7.95	30.0	970.1	8.15
10.0	490.1	7.21	1000.0	1010.1	7.97	10.0	990.1	8.68

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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
5.0	63.51	67.42	71.51	54.09	57.23	60.91
10.0	62.56	66.49	69.85	53.93	56.87	60.05
50.1	57.23	56.64	56.89	52.64	52.46	51.99
90.1	52.27	51.94	51.91	48.43	47.49	47.10
130.1	48.86	48.98	48.78	45.22	44.73	44.27
170.1	46.75	46.80	46.74	43.14	42.72	42.32
210.1	45.01	45.05	45.02	41.65	41.19	40.66
250.1	43.67	43.71	43.73	40.55	39.85	39.21
290.1	42.49	42.54	42.62	39.38	38.66	37.97
330.1	41.40	41.54	41.63	38.22	37.31	36.60
370.1	40.59	40.78	40.84	36.87	35.98	35.32
410.1	39.69	39.92	40.04	35.64	34.81	34.18
450.1	38.62	38.90	39.09	34.26	33.51	32.90
490.1	37.66	37.94	38.13	32.99	32.36	31.92
530.1	36.99	37.34	37.57	31.62	30.95	30.54
570.1	36.36	36.70	36.94	30.53	29.86	29.34
610.1	35.92	36.24	36.46	29.38	28.82	28.28
650.1	35.39	35.59	35.72	28.32	27.91	27.49
690.1	34.90	34.98	35.02	27.23	26.95	26.66
730.1	34.20	34.16	34.08	25.88	25.68	25.48
750.1	34.07	34.01	33.91	25.41	25.20	25.02
790.1	33.48	33.40	33.24	24.32	24.11	23.91
810.1	33.08	32.99	32.78	23.80	23.59	23.38
850.1	32.42	32.40	32.21	22.82	22.66	22.44
870.1	32.14	32.19	32.06	22.46	22.33	22.10
910.1	31.41	31.54	31.45	21.36	21.32	21.13
930.1	31.10	31.30	31.27	20.98	20.99	20.84
970.1	30.63	30.93	31.05	20.10	20.20	20.11
990.1	30.36	30.69	30.87	19.71	19.87	19.83
1050.1	29.99	30.54	31.06	18.49	18.76	18.81
1090.1	29.96	30.62	31.33	17.65	17.98	18.06
1110.1	29.91	30.67	31.50	17.31	17.66	17.74
1150.1	30.00	30.99	32.11	16.59	17.01	17.11
1170.1	30.02	31.11	32.34	16.24	16.70	16.82
1210.1	30.56	32.03	33.60	15.45	15.90	16.06
1230.1	30.87	32.67	34.58	15.18	15.64	15.78
1270.1	31.78	34.28	36.84	14.42	14.92	15.08
1290.1	32.48	35.54	38.63	14.20	14.68	14.82
1330.1	34.41	39.38	44.28	13.43	13.95	14.09
1350.1	34.60	40.71	48.16	13.15	13.71	13.89

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	39.34	29.58	45.35
50.1	80.1	37.57	35.29	35.47
90.1	120.1	31.64	31.66	31.76
130.1	160.1	29.26	29.05	28.98
170.1	200.1	27.02	27.33	27.10
210.1	240.1	25.80	25.89	25.96
250.1	280.1	24.94	25.07	24.96
290.1	320.1	24.43	24.39	24.36
330.1	360.1	23.88	24.04	24.04
370.1	400.1	23.54	23.77	23.77
410.1	440.1	23.34	23.55	23.67
450.1	480.1	23.31	23.54	23.78
490.1	520.1	23.19	23.46	23.75
530.1	560.1	22.91	23.27	23.51
570.1	600.1	22.01	22.34	22.57
610.1	640.1	20.76	21.01	21.14
650.1	680.1	19.26	19.39	19.50
690.1	720.1	17.75	17.82	17.83
730.1	760.1	16.54	16.53	16.52
750.1	780.1	15.98	15.97	15.93
790.1	820.1	15.07	15.07	15.06
810.1	840.1	14.65	14.62	14.65
850.1	880.1	13.99	14.00	14.06
870.1	900.1	13.69	13.73	13.80
910.1	940.1	13.23	13.30	13.41
930.1	960.1	13.03	13.11	13.26
970.1	1000.1	12.71	12.84	13.03
990.1	1020.1	12.62	12.78	13.01
1030.1	1060.1	12.46	12.70	13.00
1050.1	1080.1	12.39	12.69	13.04
1090.1	1120.1	12.39	12.78	13.24
1110.1	1140.1	12.37	12.82	13.30
1150.1	1180.1	12.34	12.87	13.37
1170.1	1200.1	12.39	12.93	13.41
1210.1	1240.1	12.43	12.95	13.35
1230.1	1260.1	12.37	12.88	13.27
1270.1	1300.1	12.31	12.75	13.04
1290.1	1320.1	12.28	12.67	12.93
1330.1	1360.1	12.07	12.41	12.57
1350.1	1380.1	11.92	12.22	12.32

Frequency Mixer

LRMS-2+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+4	+7	+10
5.0	35.0	1.72	2.44	3.27
10.0	40.0	1.68	2.37	3.24
50.1	80.1	1.27	1.38	1.43
90.1	120.1	1.20	1.28	1.33
130.1	160.1	1.27	1.35	1.39
170.1	200.1	1.20	1.26	1.32
210.1	240.1	1.27	1.34	1.39
250.1	280.1	1.26	1.33	1.37
290.1	320.1	1.27	1.34	1.38
330.1	360.1	1.28	1.34	1.39
370.1	400.1	1.28	1.35	1.40
410.1	440.1	1.31	1.38	1.43
450.1	480.1	1.32	1.39	1.44
490.1	520.1	1.34	1.41	1.46
530.1	560.1	1.37	1.44	1.50
570.1	600.1	1.41	1.48	1.54
610.1	640.1	1.43	1.49	1.56
650.1	680.1	1.50	1.56	1.62
690.1	720.1	1.49	1.56	1.62
730.1	760.1	1.61	1.69	1.75
750.1	780.1	1.62	1.70	1.76
790.1	820.1	1.68	1.76	1.83
810.1	840.1	1.76	1.84	1.91
850.1	880.1	1.81	1.88	1.95
870.1	900.1	1.83	1.90	1.97
910.1	940.1	2.05	2.11	2.17
930.1	960.1	2.09	2.14	2.20
970.1	1000.1	2.22	2.27	2.33
990.1	1020.1	2.37	2.43	2.49
1030.1	1060.1	2.49	2.54	2.59
1050.1	1080.1	2.57	2.63	2.68
1090.1	1120.1	2.89	2.96	3.02
1110.1	1140.1	2.91	2.98	3.05
1150.1	1180.1	3.18	3.27	3.35
1170.1	1200.1	3.33	3.42	3.50
1210.1	1240.1	3.43	3.53	3.60
1230.1	1260.1	3.61	3.73	3.80
1270.1	1300.1	3.76	3.86	3.92
1290.1	1320.1	3.79	3.90	3.96
1330.1	1360.1	4.08	4.19	4.26
1350.1	1380.1	4.10	4.21	4.28

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+4	+7	+10
5.0	1.30	1.35	1.38
10.0	1.19	1.25	1.29
50.1	1.96	2.79	3.83
90.1	1.94	2.75	3.76
130.1	1.93	2.74	3.73
170.1	1.98	2.78	3.79
210.1	1.97	2.76	3.73
250.1	2.05	2.86	3.88
290.1	2.09	2.90	3.92
330.1	2.16	3.01	4.04
370.1	2.27	3.16	4.23
410.1	2.30	3.17	4.23
450.1	2.40	3.30	4.37
490.1	2.41	3.26	4.28
530.1	2.48	3.33	4.35
570.1	2.54	3.36	4.34
610.1	2.61	3.43	4.39
650.1	2.71	3.52	4.46
690.1	2.72	3.49	4.36
730.1	2.79	3.53	4.36
750.1	2.81	3.51	4.29
790.1	2.80	3.45	4.17
810.1	2.81	3.45	4.14
850.1	2.87	3.47	4.12
870.1	2.88	3.48	4.10
910.1	2.90	3.47	4.07
930.1	2.94	3.50	4.09
970.1	2.90	3.42	3.95
990.1	2.86	3.35	3.87
1030.1	2.89	3.37	3.86
1050.1	2.89	3.35	3.84
1090.1	2.84	3.26	3.71
1110.1	2.87	3.29	3.73
1150.1	2.90	3.29	3.72
1170.1	2.86	3.22	3.62
1210.1	2.89	3.24	3.63
1230.1	2.94	3.30	3.70
1270.1	2.95	3.27	3.63
1290.1	3.01	3.33	3.68
1330.1	3.15	3.45	3.79
1350.1	3.17	3.46	3.79

IF (OUT) (MHz)	IF VSWR @LO=1000.1MHz (:1)		
	@LO (dBm)		
	+4	+7	+10
5.0	1.40	1.22	1.11
10.0	1.41	1.22	1.11
30.1	2.29	1.92	1.58
50.1	1.95	1.62	1.40
70.1	1.86	1.62	1.38
90.1	1.95	1.67	1.44
110.1	2.02	1.72	1.47
130.1	2.01	1.69	1.47
150.1	1.95	1.66	1.44
170.1	1.93	1.64	1.43
190.1	1.98	1.68	1.45
210.1	1.97	1.67	1.46
230.1	1.93	1.64	1.42
250.1	1.89	1.62	1.41
270.1	1.87	1.60	1.40
290.1	1.88	1.61	1.41
310.1	1.85	1.59	1.39
330.1	1.83	1.56	1.38
350.1	1.80	1.54	1.38
370.1	1.79	1.55	1.39
390.1	1.80	1.55	1.39
430.1	1.75	1.53	1.39
450.1	1.74	1.53	1.39
490.1	1.72	1.52	1.39
510.1	1.71	1.51	1.39
550.1	1.68	1.50	1.41
570.1	1.69	1.51	1.41
610.1	1.60	1.44	1.38
630.1	1.59	1.45	1.39
670.1	1.61	1.47	1.42
690.1	1.58	1.44	1.39
730.1	1.53	1.42	1.40
750.1	1.55	1.45	1.43
790.1	1.50	1.40	1.38
810.1	1.45	1.37	1.37
850.1	1.47	1.41	1.43
870.1	1.47	1.41	1.42
910.1	1.40	1.35	1.37
930.1	1.39	1.35	1.40
970.1	1.40	1.37	1.41
990.1	1.38	1.35	1.38

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	2	18	8	28	15	32	16	30	29	42
1	-	17	0	30	13	30	25	39	36	37	47	39
2	109	67	47	68	48	71	48	72	58	64	53	58
3	117	73	78	77	69	75	67	73	79	78	67	77
4	117	100	92	98	89	88	89	96	89	97	94	94
5	114	99	107	109	98	96	86	100	97	107	101	105
6	113	107	103	111	108	104	94	85	101	110	113	98
7	119	107	114	106	100	110	100	113	93	96	102	97
8	118	103	126	106	108	107	105	96	85	95	97	102
9	120	103	109	100	102	102	109	107	99	86	86	99
10	127	104	104	105	106	104	104	104	131	101	91	89
	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; -21.04 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	12	28	19	39	25	42	28	44	44	64
1	-	17	0	29	13	32	26	42	37	41	52	45
2	100	58	38	52	38	71	41	63	50	64	45	55
3	111	53	53	70	50	61	48	51	54	57	53	55
4	113	73	78	93	62	72	63	72	56	78	72	66
5	118	77	77	76	60	70	58	69	59	73	67	80
6	118	86	86	84	78	75	70	74	67	86	71	88
7	114	86	86	92	81	87	77	84	78	92	83	87
8	112	104	107	106	104	100	97	92	91	95	87	89
9	124	105	99	109	103	108	108	103	93	96	89	99
10	113	106	118	106	107	105	114	104	115	101	96	92
	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; -11.20 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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