

Frequency Mixer

LRMS-ED9925/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=167MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+9dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+10	+13	+16			+10	+13	+16			+10	+13	+16
10.0	177.0	7.96	6.98	6.55	10.0	177.0	11.23	12.50	15.02	10.0	177.0	1.04	0.66	0.46
50.0	217.0	8.03	7.21	6.75	50.0	217.0	10.15	12.21	14.48	50.0	217.0	0.72	0.18	0.17
90.0	257.0	7.78	7.12	6.60	90.0	257.0	10.17	13.27	15.78	90.0	257.0	0.98	0.54	0.51
130.0	297.0	8.19	7.34	6.70	130.0	297.0	9.47	12.29	16.22	130.0	297.0	0.18	0.20	0.34
170.0	337.0	8.31	7.37	6.75	170.0	337.0	9.68	12.22	16.57	170.0	337.0	0.00	0.18	0.40
210.0	377.0	8.55	7.25	6.74	210.0	377.0	10.69	14.22	20.09	210.0	377.0	-0.20	0.31	0.38
250.0	417.0	8.60	7.12	6.84	250.0	417.0	11.11	16.70	20.28	250.0	417.0	0.02	0.54	0.46
290.0	457.0	7.58	6.89	6.70	290.0	457.0	15.19	21.58	23.97	290.0	457.0	1.15	0.82	0.68
330.0	497.0	7.60	7.13	6.94	330.0	497.0	16.94	21.04	24.26	330.0	497.0	1.05	0.68	0.58
370.0	537.0	7.55	7.13	6.91	370.0	537.0	17.27	20.20	22.92	370.0	537.0	1.19	0.94	0.82
410.0	577.0	7.69	7.25	7.02	410.0	577.0	19.51	20.57	22.46	410.0	577.0	1.16	0.88	0.75
450.0	617.0	7.87	7.32	7.10	450.0	617.0	18.34	19.31	20.91	450.0	617.0	1.28	1.00	0.81
490.0	657.0	7.98	7.39	7.08	490.0	657.0	17.44	20.02	20.28	490.0	657.0	1.30	1.01	0.88
530.0	697.0	8.22	7.56	7.20	530.0	697.0	15.93	18.45	20.94	530.0	697.0	1.22	0.92	0.87
570.0	737.0	8.19	7.64	7.33	570.0	737.0	16.08	16.88	18.62	570.0	737.0	1.34	0.91	0.81
590.0	757.0	8.31	7.74	7.45	590.0	757.0	16.87	16.89	18.29	590.0	757.0	1.20	0.82	0.71
630.0	797.0	8.16	7.52	7.24	630.0	797.0	16.31	17.15	18.27	630.0	797.0	1.34	0.98	0.87
650.0	817.0	8.23	7.58	7.31	650.0	817.0	15.93	16.99	18.22	650.0	817.0	1.32	0.97	0.83
690.0	857.0	8.20	7.45	7.19	690.0	857.0	15.90	17.40	18.34	690.0	857.0	1.30	1.04	0.86
710.0	877.0	8.32	7.48	7.22	710.0	877.0	15.64	18.07	18.82	710.0	877.0	1.04	0.98	0.83
750.0	917.0	8.23	7.38	7.07	750.0	917.0	15.43	17.45	18.71	750.0	917.0	1.05	1.05	0.93
770.0	937.0	8.37	7.45	7.04	770.0	937.0	15.12	17.62	18.89	770.0	937.0	1.01	1.00	0.99
810.0	977.0	8.36	7.58	7.10	810.0	977.0	15.15	15.88	18.32	810.0	977.0	1.02	0.82	0.94
830.0	997.0	8.32	7.67	7.22	830.0	997.0	15.09	15.23	17.39	830.0	997.0	0.84	0.59	0.75
870.0	1037.0	8.31	7.62	7.34	870.0	1037.0	15.24	15.03	16.49	870.0	1037.0	0.81	0.55	0.55
890.0	1057.0	8.39	7.53	7.26	890.0	1057.0	17.38	15.41	16.97	890.0	1057.0	0.90	0.69	0.60
930.0	1097.0	8.72	7.55	7.30	930.0	1097.0	15.70	16.49	17.58	930.0	1097.0	0.66	0.73	0.60
950.0	1117.0	8.65	7.48	7.24	950.0	1117.0	15.76	16.34	17.84	950.0	1117.0	0.57	0.73	0.61
990.0	1157.0	9.05	7.70	7.37	990.0	1157.0	13.93	17.27	18.16	990.0	1157.0	0.26	0.61	0.55
1010.0	1177.0	9.17	7.67	7.33	1010.0	1177.0	13.73	17.84	18.40	1010.0	1177.0	0.31	0.67	0.59
1050.0	1217.0	9.56	7.91	7.39	1050.0	1217.0	11.99	20.32	18.00	1050.0	1217.0	-0.02	0.49	0.57
1070.0	1237.0	9.70	7.95	7.44	1070.0	1237.0	11.98	21.27	17.84	1070.0	1237.0	-0.19	0.47	0.56
1110.0	1277.0	9.97	8.09	7.58	1110.0	1277.0	11.01	20.95	25.74	1110.0	1277.0	-0.33	0.50	0.52
1130.0	1297.0	10.39	8.24	7.61	1130.0	1297.0	10.16	20.59	20.76	1130.0	1297.0	-0.44	0.48	0.54
1170.0	1337.0	10.83	8.46	7.67	1170.0	1337.0	8.71	18.26	19.74	1170.0	1337.0	-0.62	0.46	0.64
1190.0	1357.0	11.04	8.64	7.80	1190.0	1357.0	8.64	18.49	20.54	1190.0	1357.0	-0.83	0.40	0.70
1230.0	1397.0	12.51	9.03	7.92	1230.0	1397.0	5.82	14.69	21.13	1230.0	1397.0	-1.66	0.31	0.81
1250.0	1417.0	13.63	9.41	8.16	1250.0	1417.0	4.27	12.30	19.30	1250.0	1417.0	-2.28	0.18	0.71
1290.0	1457.0	14.53	9.66	8.49	1290.0	1457.0	3.72	11.93	22.19	1290.0	1457.0	-2.63	0.26	0.62
1310.0	1477.0	16.27	10.14	8.81	1310.0	1477.0	1.91	9.85	20.68	1310.0	1477.0	-3.77	0.18	0.54

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Frequency Mixer

LRMS-ED9925/1

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=600MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=189.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1010.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+13			+13			+13
529.9	70.1	10.78	10.1	200.0	7.96	930.1	80.0	10.89
501.0	99.0	8.51	50.1	240.0	7.54	909.7	100.4	9.61
472.1	127.9	8.14	90.1	280.0	7.32	889.2	120.9	9.17
443.3	156.8	8.33	130.1	320.0	7.10	868.8	141.3	9.15
414.4	185.6	8.21	170.1	360.0	7.27	848.3	161.8	8.94
385.5	214.5	8.19	210.1	400.0	7.07	827.9	182.2	8.93
356.6	243.4	8.28	250.1	440.0	6.88	807.4	202.7	8.66
327.7	272.3	8.42	290.1	480.0	6.80	787.0	223.1	8.67
298.8	301.2	8.61	330.1	520.0	6.90	766.5	243.6	8.64
270.0	330.1	8.04	370.1	560.0	7.05	746.1	264.0	8.59
241.1	358.9	8.04	410.1	600.0	7.07	725.7	284.4	8.59
212.2	387.8	7.90	430.1	620.0	6.88	705.2	304.9	8.38
183.3	416.7	7.54	470.1	660.0	7.11	684.8	325.3	8.50
154.4	445.6	7.51	490.1	680.0	7.06	664.3	345.8	8.25
125.5	474.5	7.33	530.1	720.0	7.17	643.9	366.2	8.34
96.7	503.4	7.41	550.1	740.0	7.32	623.4	386.7	8.16
67.8	532.2	7.44	590.1	780.0	7.28	603.0	407.1	7.82
38.9	561.1	7.38	610.1	800.0	7.36	582.5	427.6	7.91
10.0	590.0	7.93	650.1	840.0	7.36	562.1	448.0	7.68
35.6	635.6	7.48	670.1	860.0	7.30	541.7	468.4	7.70
86.7	686.7	7.50	710.1	900.0	7.43	521.2	488.9	7.63
137.8	737.8	7.65	730.1	920.0	7.44	500.8	509.3	7.60
188.9	788.9	7.62	770.1	960.0	7.60	480.3	529.8	7.67
240.0	840.0	7.50	790.1	980.0	7.70	459.9	550.2	7.50
291.1	891.1	7.51	830.1	1020.0	7.87	439.4	570.7	7.55
342.3	942.3	7.43	850.1	1040.0	7.95	419.0	591.1	7.33
393.4	993.4	7.62	890.1	1080.0	8.01	398.5	611.6	7.49
444.5	1044.5	7.58	910.1	1100.0	8.18	378.1	632.0	7.38
495.6	1095.6	7.48	950.1	1140.0	8.42	337.2	672.9	7.50
546.7	1146.7	7.53	970.1	1160.0	8.38	316.8	693.3	7.41
597.8	1197.8	7.45	1010.1	1200.0	8.28	275.9	734.2	7.33
623.4	1223.4	7.46	1030.1	1220.0	8.40	255.4	754.7	7.49
674.5	1274.5	7.59	1070.1	1260.0	8.66	214.5	795.6	7.51
700.1	1300.1	7.85	1090.1	1280.0	8.87	194.1	816.0	7.39
751.2	1351.2	8.25	1130.1	1320.0	9.35	153.2	856.9	7.45
776.7	1376.8	8.41	1150.1	1340.0	9.50	132.8	877.3	7.36
827.9	1427.9	8.67	1190.1	1380.0	9.90	91.9	918.2	7.43
853.4	1453.4	8.71	1210.1	1400.0	10.13	71.4	938.7	7.64
904.5	1504.5	9.84	1250.1	1440.0	10.53	30.5	979.6	7.70
930.1	1530.1	10.25	1270.1	1460.0	10.78	10.1	1000.0	8.11

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+10	+13	+16	+10	+13	+16
177.0	40.59	40.46	40.25	47.13	47.82	48.80
217.0	40.02	40.08	40.23	44.71	45.65	47.18
257.0	38.92	39.15	39.10	42.46	43.65	45.78
297.0	38.74	39.54	39.68	40.83	41.98	43.92
337.0	37.81	39.19	38.78	39.60	41.00	42.81
377.0	37.65	38.65	37.85	38.43	40.61	42.23
417.0	36.81	36.72	36.10	37.75	40.19	41.42
457.0	34.88	34.90	34.98	37.05	38.62	39.66
497.0	34.29	34.65	34.69	35.76	37.35	38.48
537.0	32.79	33.25	33.70	34.58	36.11	37.21
577.0	32.26	32.40	32.78	33.74	35.15	36.12
617.0	31.31	31.67	32.17	32.96	34.43	35.35
657.0	30.22	30.86	31.35	32.24	33.56	34.22
697.0	30.16	31.06	32.09	31.34	32.52	33.15
737.0	28.13	28.88	29.85	30.13	31.17	31.68
757.0	28.35	29.29	30.19	29.87	31.01	31.34
797.0	26.44	27.48	28.77	28.97	30.01	30.34
817.0	26.40	27.51	28.89	28.77	29.66	29.93
857.0	25.61	26.87	28.42	28.32	29.08	29.11
877.0	25.21	26.49	28.17	27.88	28.61	28.62
917.0	24.05	25.65	27.54	27.44	28.06	27.85
937.0	24.12	25.68	27.63	27.27	27.62	27.42
977.0	23.08	24.76	26.82	26.65	26.81	26.44
997.0	22.55	24.22	26.29	26.35	26.37	25.97
1037.0	22.49	24.45	26.60	26.18	25.97	25.42
1057.0	21.75	23.70	25.80	25.93	25.81	25.08
1097.0	21.40	23.37	25.32	25.92	25.87	24.87
1117.0	20.68	22.63	24.40	25.63	25.62	24.64
1157.0	20.57	22.39	23.91	25.81	25.36	24.33
1177.0	20.05	21.74	23.24	25.89	25.04	24.14
1217.0	19.65	21.21	22.66	26.21	25.12	24.22
1237.0	19.45	20.88	22.33	26.44	25.10	24.04
1277.0	18.85	20.16	21.40	26.77	25.24	24.18
1297.0	18.60	19.94	21.18	27.29	25.64	24.36
1337.0	18.19	19.28	20.43	28.22	26.07	24.78
1357.0	18.21	19.41	20.59	29.11	26.58	25.24
1397.0	17.76	18.58	19.97	30.94	27.55	25.80
1417.0	17.59	18.40	19.79	32.77	28.73	26.57
1457.0	17.07	17.74	19.09	34.33	29.20	27.01
1477.0	16.92	17.50	18.84	37.24	30.93	27.86

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+10	+13	+16
10.0	177.0	54.58	56.04	57.31
50.0	217.0	44.06	45.16	46.77
90.0	257.0	38.78	40.55	43.18
130.0	297.0	35.81	37.80	40.81
170.0	337.0	32.97	34.95	37.52
210.0	377.0	31.28	33.84	35.37
250.0	417.0	29.98	32.32	32.91
290.0	457.0	29.88	31.09	31.40
330.0	497.0	29.39	30.14	30.48
370.0	537.0	28.97	29.72	30.02
410.0	577.0	28.17	28.88	29.11
450.0	617.0	27.34	28.25	28.69
490.0	657.0	27.12	27.81	28.27
530.0	697.0	27.14	27.88	28.10
570.0	737.0	27.25	27.86	27.86
590.0	757.0	26.90	27.46	27.37
630.0	797.0	26.46	26.64	26.26
650.0	817.0	26.73	26.79	26.26
690.0	857.0	25.98	25.69	25.27
710.0	877.0	25.76	25.18	24.77
750.0	917.0	25.00	24.09	23.57
770.0	937.0	24.54	23.40	22.74
810.0	977.0	23.69	22.48	21.69
830.0	997.0	23.12	21.96	21.15
870.0	1037.0	21.96	20.73	20.12
890.0	1057.0	21.51	19.97	19.34
930.0	1097.0	20.55	18.57	17.93
950.0	1117.0	19.87	17.98	17.28
990.0	1157.0	19.04	17.45	16.64
1010.0	1177.0	19.14	17.49	16.70
1050.0	1217.0	18.90	17.44	16.48
1070.0	1237.0	18.57	17.14	16.18
1110.0	1277.0	17.91	16.59	15.84
1130.0	1297.0	17.55	16.20	15.51
1170.0	1337.0	16.85	15.65	14.93
1190.0	1357.0	16.49	15.30	14.61
1230.0	1397.0	16.14	14.98	14.09
1250.0	1417.0	16.05	14.77	13.82
1290.0	1457.0	15.56	14.21	13.45
1310.0	1477.0	15.74	14.07	13.36

Frequency Mixer

LRMS-ED9925/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1000MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+10	+13	+16		+10	+13	+16		+10	+13	+16
10.0	177.0	1.43	1.04	1.24	177.0	3.06	2.30	2.51	10.1	1.58	1.47	1.40
50.0	217.0	1.23	1.05	1.25	217.0	2.28	1.96	2.44	30.1	1.54	1.41	1.33
90.0	257.0	1.28	1.07	1.26	257.0	1.96	1.76	2.25	50.1	1.55	1.42	1.34
130.0	297.0	1.35	1.10	1.18	297.0	1.67	1.64	2.16	70.1	1.56	1.43	1.35
170.0	337.0	1.48	1.16	1.13	337.0	1.58	1.61	2.14	90.1	1.51	1.38	1.30
210.0	377.0	1.53	1.12	1.09	377.0	1.52	1.57	2.05	110.1	1.49	1.36	1.28
250.0	417.0	1.54	1.08	1.06	417.0	1.56	1.48	2.00	130.1	1.55	1.42	1.34
290.0	457.0	1.30	1.07	1.01	457.0	1.58	1.33	1.89	150.1	1.53	1.41	1.33
330.0	497.0	1.29	1.12	1.04	497.0	1.51	1.22	1.86	170.1	1.46	1.34	1.27
370.0	537.0	1.34	1.20	1.10	537.0	1.50	1.16	1.80	190.1	1.47	1.35	1.28
410.0	577.0	1.42	1.27	1.19	577.0	1.56	1.13	1.74	210.1	1.51	1.39	1.33
450.0	617.0	1.51	1.32	1.25	617.0	1.65	1.15	1.70	230.1	1.47	1.36	1.30
490.0	657.0	1.62	1.43	1.33	657.0	1.74	1.18	1.64	250.1	1.45	1.33	1.27
530.0	697.0	1.73	1.52	1.41	697.0	1.90	1.20	1.60	270.1	1.46	1.35	1.30
570.0	737.0	1.77	1.61	1.51	737.0	1.98	1.22	1.51	290.1	1.44	1.34	1.31
590.0	757.0	1.83	1.64	1.56	757.0	2.08	1.24	1.47	310.1	1.42	1.32	1.28
630.0	797.0	1.85	1.68	1.62	797.0	2.26	1.28	1.40	330.1	1.43	1.33	1.29
650.0	817.0	1.87	1.70	1.66	817.0	2.32	1.30	1.35	350.1	1.42	1.34	1.31
690.0	857.0	1.92	1.74	1.72	857.0	2.53	1.37	1.27	370.1	1.37	1.29	1.27
710.0	877.0	1.94	1.74	1.73	877.0	2.68	1.40	1.22	390.1	1.37	1.29	1.28
750.0	917.0	1.97	1.77	1.75	917.0	2.82	1.46	1.13	430.1	1.36	1.31	1.31
770.0	937.0	1.99	1.80	1.74	937.0	2.93	1.50	1.09	450.1	1.32	1.26	1.27
810.0	977.0	1.99	1.87	1.78	977.0	3.26	1.60	1.06	490.1	1.35	1.33	1.36
830.0	997.0	1.95	1.89	1.82	997.0	3.40	1.66	1.11	510.1	1.30	1.29	1.32
870.0	1037.0	1.94	1.90	1.91	1037.0	3.78	1.84	1.29	550.1	1.31	1.32	1.36
890.0	1057.0	1.94	1.88	1.93	1057.0	3.97	1.93	1.38	570.1	1.30	1.34	1.40
930.0	1097.0	1.99	1.84	1.94	1097.0	4.46	2.12	1.56	610.1	1.29	1.34	1.39
950.0	1117.0	1.99	1.82	1.93	1117.0	4.73	2.22	1.68	630.1	1.28	1.36	1.43
990.0	1157.0	2.04	1.79	1.90	1157.0	5.36	2.51	1.98	670.1	1.28	1.38	1.45
1010.0	1177.0	2.10	1.80	1.90	1177.0	5.74	2.67	2.16	690.1	1.31	1.43	1.50
1050.0	1217.0	2.14	1.79	1.87	1217.0	7.28	3.22	2.58	730.1	1.29	1.42	1.50
1070.0	1237.0	2.15	1.79	1.85	1237.0	7.76	3.50	2.83	750.1	1.35	1.49	1.57
1110.0	1277.0	2.14	1.78	1.78	1277.0	9.28	4.28	3.48	790.1	1.38	1.53	1.61
1130.0	1297.0	2.22	1.80	1.75	1297.0	11.03	4.87	3.89	810.1	1.39	1.54	1.62
1170.0	1337.0	2.24	1.81	1.71	1337.0	13.39	6.11	4.87	850.1	1.50	1.66	1.75
1190.0	1357.0	2.26	1.82	1.70	1357.0	14.15	6.71	5.41	870.1	1.51	1.67	1.76
1230.0	1397.0	2.57	1.86	1.70	1397.0	17.57	8.77	6.58	910.1	1.62	1.78	1.87
1250.0	1417.0	2.86	1.89	1.71	1417.0	18.90	10.02	7.28	930.1	1.65	1.82	1.90
1290.0	1457.0	2.92	1.88	1.76	1457.0	19.32	11.61	8.68	970.1	1.78	1.95	2.04
1310.0	1477.0	3.37	1.91	1.79	1477.0	19.76	13.39	9.43	990.1	1.78	1.93	2.01

REV. X2

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+2	10	18	30	19	35	16	41	25	60
1	-	15	+0	25	11	34	44	35	39	42	47	48
2	73	58	55	62	57	63	64	>76	61	69	56	64
3	>90	68	67	67	65	69	71	>76	>76	>76	73	>76
4	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
5	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
6	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
7	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
8	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
9	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
10	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 800 MHz; -6.00 dBm.
LO IN: 967 MHz; +13.00 dBm
IF OUT: 167 MHz; -14.01 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	8	20	29	41	31	44	28	53	38	62
1	-	15	+0	25	11	36	44	39	43	45	50	51
2	54	55	44	51	45	48	52	66	50	60	46	59
3	82	48	45	46	45	49	49	55	65	51	53	61
4	>90	77	69	66	69	69	74	65	85	81	75	76
5	>90	74	78	72	64	68	65	74	68	79	75	74
6	>90	>86	>86	>86	>86	81	86	77	76	86	>86	>86
7	>90	>86	>86	>86	>86	86	82	82	76	79	>86	>86
8	>90	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
9	>90	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
10	>90	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 800 MHz; 4.00 dBm.
LO IN: 967 MHz; +13.00 dBm
IF OUT: 167 MHz; -3.99 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.