

Frequency Mixer

LRMS-ED6552/1

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	+4	+7	+10			
10.1	40.1	5.68	5.52	5.37	10.1	40.1	20.90	21.24	21.31	10.1	40.1	1.42	1.18	0.81
40.1	70.1	6.39	6.02	5.87	40.1	70.1	19.14	20.43	19.96	40.1	70.1	0.96	0.73	0.57
70.1	100.1	6.42	6.07	5.91	70.1	100.1	17.75	19.06	20.67	70.1	100.1	1.12	0.85	0.61
100.1	130.1	6.36	6.12	5.95	100.1	130.1	17.69	20.94	21.02	100.1	130.1	1.04	0.75	0.55
130.1	160.1	6.40	6.13	5.95	130.1	160.1	17.77	20.93	21.03	130.1	160.1	1.02	0.75	0.52
160.1	190.1	6.44	6.17	6.02	160.1	190.1	18.24	20.91	20.99	160.1	190.1	1.06	0.78	0.61
190.1	220.1	6.47	6.21	6.06	190.1	220.1	17.80	19.73	19.84	190.1	220.1	1.02	0.72	0.55
220.1	250.1	6.58	6.27	6.09	220.1	250.1	17.76	18.80	18.82	220.1	250.1	0.93	0.70	0.53
250.1	280.1	6.61	6.34	6.15	250.1	280.1	17.11	17.85	18.04	250.1	280.1	0.98	0.71	0.56
280.1	310.1	6.58	6.31	6.14	280.1	310.1	17.60	17.24	18.25	280.1	310.1	1.02	0.79	0.61
310.1	340.1	6.61	6.31	6.13	310.1	340.1	18.61	18.10	19.54	310.1	340.1	1.00	0.76	0.61
340.1	370.1	6.75	6.44	6.23	340.1	370.1	15.92	16.25	19.03	340.1	370.1	1.01	0.79	0.64
370.1	400.1	6.76	6.47	6.26	370.1	400.1	16.42	16.40	17.97	370.1	400.1	1.09	0.84	0.68
400.1	430.1	6.80	6.46	6.26	400.1	430.1	17.67	17.44	19.43	400.1	430.1	1.10	0.85	0.69
430.1	460.1	6.86	6.50	6.27	430.1	460.1	16.94	18.03	20.86	430.1	460.1	1.22	0.99	0.82
460.1	490.1	6.84	6.50	6.28	460.1	490.1	13.53	15.58	20.86	460.1	490.1	1.32	1.06	0.89
490.1	520.1	6.95	6.58	6.32	490.1	520.1	12.02	13.89	19.24	490.1	520.1	1.32	1.09	0.93
520.1	550.1	7.05	6.67	6.41	520.1	550.1	10.66	12.06	15.62	520.1	550.1	1.38	1.15	0.99
550.1	580.1	7.09	6.72	6.46	550.1	580.1	10.87	12.47	16.34	550.1	580.1	1.46	1.20	1.04
580.1	610.1	7.12	6.68	6.39	580.1	610.1	11.97	14.20	20.80	580.1	610.1	1.53	1.31	1.16
610.1	640.1	7.15	6.69	6.40	610.1	640.1	13.41	17.40	20.48	610.1	640.1	1.59	1.35	1.20
640.1	670.1	7.26	6.74	6.44	640.1	670.1	15.18	20.63	15.94	640.1	670.1	1.69	1.46	1.30
670.1	700.1	7.36	6.79	6.45	670.1	700.1	17.12	18.09	14.43	670.1	700.1	1.67	1.46	1.32
700.1	730.1	7.51	6.93	6.56	700.1	730.1	15.99	16.42	13.61	700.1	730.1	1.64	1.45	1.31
730.1	760.1	7.63	7.02	6.63	730.1	760.1	16.35	14.86	11.96	730.1	760.1	1.68	1.52	1.39
760.1	790.1	7.69	7.13	6.77	760.1	790.1	17.39	14.10	11.53	760.1	790.1	1.61	1.43	1.30
790.1	820.1	7.85	7.33	6.96	790.1	820.1	18.74	16.64	12.49	790.1	820.1	1.54	1.37	1.25
820.1	850.1	8.07	7.60	7.24	820.1	850.1	19.97	16.62	13.96	820.1	850.1	1.49	1.29	1.18
850.1	880.1	8.21	7.85	7.57	850.1	880.1	16.66	16.90	15.58	850.1	880.1	1.33	1.10	0.97
880.1	910.1	8.39	8.06	7.83	880.1	910.1	15.36	16.35	16.06	880.1	910.1	1.30	1.04	0.89
910.1	940.1	8.55	8.29	8.13	910.1	940.1	14.40	15.64	15.84	910.1	940.1	1.26	0.95	0.80
940.1	970.1	8.65	8.46	8.35	940.1	970.1	12.89	14.49	15.59	940.1	970.1	1.20	0.88	0.73
970.1	1000.1	8.83	8.63	8.53	970.1	1000.1	12.06	13.59	15.30	970.1	1000.1	1.21	0.88	0.73
1000.1	1030.1	9.01	8.84	8.77	1000.1	1030.1	11.71	13.42	14.66	1000.1	1030.1	1.17	0.83	0.69
1030.1	1060.1	9.16	8.98	8.92	1030.1	1060.1	11.23	12.73	13.89	1030.1	1060.1	1.19	0.86	0.73
1060.1	1090.1	9.44	9.25	9.17	1060.1	1090.1	10.85	12.20	13.34	1060.1	1090.1	1.21	0.86	0.76
1090.1	1120.1	9.71	9.52	9.45	1090.1	1120.1	9.81	11.03	12.34	1090.1	1120.1	1.19	0.86	0.78
1120.1	1150.1	10.08	9.88	9.78	1120.1	1150.1	8.22	9.47	11.20	1120.1	1150.1	1.20	0.88	0.82
1140.1	1170.1	10.38	10.15	10.03	1140.1	1170.1	7.33	8.66	10.37	1140.1	1170.1	1.18	0.86	0.83
1170.1	1200.1	10.97	10.69	10.55	1170.1	1200.1	6.46	7.84	9.80	1170.1	1200.1	1.12	0.83	0.81

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Frequency Mixer

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=250.1MHz (dB)
		@LO (dBm)
		+7
240.0	10.1	6.24
234.1	16.0	6.19
228.2	21.9	6.17
222.3	27.8	6.17
216.4	33.7	6.10
210.5	39.6	6.12
204.6	45.5	6.12
198.7	51.4	6.08
192.8	57.3	6.13
186.9	63.2	6.11
181.0	69.1	6.12
175.1	75.0	6.14
169.2	80.9	6.12
163.3	86.8	6.10
157.4	92.7	6.11
151.5	98.6	6.10
145.6	104.5	6.05
139.7	110.4	6.07
133.8	116.3	6.15
127.9	122.2	6.07
122.1	128.0	6.05
116.2	133.9	6.11
110.3	139.8	6.08
104.4	145.7	6.06
98.5	151.6	6.11
92.6	157.5	6.12
86.7	163.4	6.11
80.8	169.3	6.13
74.9	175.2	6.16
69.0	181.1	6.13
63.1	187.0	6.18
57.2	192.9	6.16
51.3	198.8	6.17
45.4	204.7	6.20
39.5	210.6	6.20
33.6	216.5	6.19
27.7	222.4	6.25
21.8	228.3	6.30
15.9	234.2	6.33
10.0	240.1	6.82

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10.1MHz (dB)
		@LO (dBm)
		+7
10.0	20.1	6.19
49.7	59.8	5.41
89.3	99.4	5.23
129.0	139.1	5.70
168.7	178.8	5.66
188.5	198.6	5.64
228.2	238.3	5.75
248.0	258.1	5.68
287.7	297.8	5.87
307.5	317.6	5.60
347.2	357.3	5.80
367.0	377.1	6.06
406.7	416.8	5.60
426.5	436.6	5.92
466.2	476.3	5.84
486.0	496.1	6.02
525.7	535.8	5.80
545.5	555.6	5.88
585.2	595.3	5.84
605.0	615.1	5.85
644.7	654.8	5.85
664.5	674.6	6.03
704.2	714.3	6.22
724.0	734.1	6.22
763.7	773.8	6.22
783.5	793.6	6.37
823.2	833.3	6.52
843.0	853.1	6.78
882.7	892.8	6.92
902.5	912.6	6.84
942.2	952.3	6.83
962.0	972.1	7.28
1001.7	1011.8	7.40
1021.5	1031.6	7.71
1061.2	1071.3	8.16
1081.0	1091.1	8.54
1120.7	1130.8	9.01
1140.5	1150.6	9.46
1180.2	1190.3	10.16
1200.0	1210.1	11.07

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=500.1MHz (dB)
		@LO (dBm)
		+7
490.0	10.1	6.43
477.7	22.4	6.33
465.4	34.7	6.28
453.1	47.0	6.31
440.8	59.3	6.30
428.5	71.6	6.27
416.2	83.9	6.22
403.8	96.3	6.28
391.5	108.6	6.26
379.2	120.9	6.22
366.9	133.2	6.21
354.6	145.5	6.25
342.3	157.8	6.24
330.0	170.1	6.25
317.7	182.4	6.27
305.4	194.7	6.27
293.1	207.0	6.27
280.8	219.3	6.26
268.5	231.6	6.22
256.2	243.9	6.30
243.8	256.3	6.27
231.5	268.6	6.20
219.2	280.9	6.26
206.9	293.2	6.33
194.6	305.5	6.29
182.3	317.8	6.32
170.0	330.1	6.28
157.7	342.4	6.29
145.4	354.7	6.36
133.1	367.0	6.39
120.8	379.3	6.38
108.5	391.6	6.44
96.2	403.9	6.38
83.8	416.3	6.37
71.5	428.6	6.36
59.2	440.9	6.43
46.9	453.2	6.43
34.6	465.5	6.51
22.3	477.8	6.60
10.0	490.1	7.16

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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
40.1	54.59	52.88	52.31	49.78	48.14	46.83
70.1	50.78	50.24	49.92	46.62	45.10	44.27
100.1	47.89	47.53	47.40	43.74	42.72	42.25
130.1	45.78	45.48	45.18	41.33	40.59	39.97
160.1	44.51	44.33	44.07	40.34	39.73	39.09
190.1	43.28	43.06	42.83	39.65	38.92	38.09
220.1	42.30	42.00	41.73	38.14	37.22	36.32
250.1	41.17	40.89	40.69	38.02	36.87	35.79
280.1	40.51	40.31	40.10	37.23	35.94	34.82
310.1	39.81	39.60	39.36	36.14	34.73	33.64
340.1	38.87	38.63	38.35	35.37	33.92	32.79
370.1	37.79	37.75	37.67	34.00	32.71	31.70
400.1	36.56	36.57	36.57	32.63	31.42	30.56
430.1	35.77	35.75	35.68	31.35	30.13	29.29
460.1	35.08	35.06	35.07	30.34	29.07	28.14
490.1	34.52	34.46	34.35	29.35	28.13	27.14
520.1	33.62	33.33	33.04	28.27	27.10	26.12
550.1	32.99	32.68	32.35	27.30	26.26	25.38
580.1	32.22	31.87	31.60	26.10	25.13	24.31
610.1	31.59	31.13	30.72	24.91	23.91	23.10
640.1	31.00	30.45	29.96	23.92	22.90	22.08
670.1	30.53	30.06	29.67	22.91	21.94	21.10
700.1	30.10	29.59	29.26	21.94	21.01	20.20
730.1	29.53	29.04	28.66	21.08	20.16	19.32
760.1	29.08	28.74	28.51	20.24	19.42	18.55
790.1	29.15	28.90	28.80	19.50	18.70	17.88
820.1	28.75	28.49	28.34	18.71	18.03	17.18
850.1	28.63	28.48	28.50	18.00	17.41	16.58
880.1	28.98	28.99	29.08	17.47	16.94	16.11
910.1	29.12	28.98	28.94	16.74	16.25	15.47
940.1	29.34	29.07	28.79	15.94	15.51	14.74
970.1	29.98	29.47	28.91	15.41	15.00	14.26
1000.1	30.61	29.66	28.72	14.77	14.38	13.67
1030.1	31.06	29.29	27.87	13.98	13.63	12.91
1060.1	31.15	28.73	27.08	13.47	13.15	12.49
1090.1	31.73	28.52	26.60	13.01	12.74	12.14
1120.1	30.68	27.09	25.11	12.33	12.11	11.56
1150.1	29.07	25.70	23.87	11.92	11.71	11.17
1170.1	28.76	25.39	23.62	11.74	11.53	11.07
1200.1	27.36	24.27	22.52	11.35	11.18	10.73

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	47.02	46.62	45.63
40.1	70.1	36.52	36.68	36.66
70.1	100.1	32.22	32.39	32.36
100.1	130.1	29.81	30.02	30.05
130.1	160.1	27.91	28.05	28.25
160.1	190.1	26.63	26.88	27.04
190.1	220.1	25.83	26.07	26.23
220.1	250.1	24.88	25.16	25.37
250.1	280.1	24.88	25.22	25.53
280.1	310.1	24.47	24.88	25.18
310.1	340.1	23.91	24.30	24.63
340.1	370.1	24.10	24.59	24.97
370.1	400.1	23.89	24.45	24.88
400.1	430.1	24.48	25.24	25.83
430.1	460.1	24.59	25.42	25.92
460.1	490.1	23.58	24.15	24.40
490.1	520.1	22.54	22.78	22.83
520.1	550.1	20.90	20.88	20.76
550.1	580.1	19.32	19.17	18.98
580.1	610.1	18.27	18.10	17.91
610.1	640.1	17.26	17.07	16.90
640.1	670.1	16.49	16.33	16.19
670.1	700.1	15.99	15.92	15.88
700.1	730.1	15.39	15.36	15.36
730.1	760.1	15.07	15.09	15.15
760.1	790.1	14.69	14.78	14.94
790.1	820.1	14.18	14.32	14.56
820.1	850.1	13.97	14.17	14.45
850.1	880.1	13.48	13.68	13.92
880.1	910.1	13.08	13.26	13.44
910.1	940.1	12.70	12.84	12.93
940.1	970.1	12.25	12.30	12.32
970.1	1000.1	11.84	11.85	11.80
1000.1	1030.1	11.34	11.27	11.15
1030.1	1060.1	10.87	10.76	10.60
1060.1	1090.1	10.27	10.15	9.98
1090.1	1120.1	9.62	9.45	9.29
1120.1	1150.1	9.02	8.85	8.69
1140.1	1170.1	8.57	8.41	8.27
1170.1	1200.1	8.02	7.85	7.73

Frequency Mixer

LRMS-ED6552/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=500MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
10.1	40.1	1.23	1.14	1.08	40.1	2.61	6.07	34.75	10.0	1.56	1.38	1.24
40.1	70.1	1.09	1.09	1.13	70.1	1.93	3.01	4.74	20.0	1.53	1.34	1.21
70.1	100.1	1.02	1.08	1.14	100.1	1.80	2.70	4.02	30.0	1.58	1.39	1.25
100.1	130.1	1.05	1.05	1.10	130.1	1.87	2.84	4.21	40.0	1.60	1.41	1.27
130.1	160.1	1.05	1.09	1.13	160.1	1.80	2.62	3.72	50.0	1.55	1.37	1.23
160.1	190.1	1.03	1.08	1.13	190.1	1.76	2.52	3.54	60.0	1.54	1.36	1.22
190.1	220.1	1.05	1.08	1.12	220.1	1.82	2.65	3.72	70.0	1.60	1.41	1.27
220.1	250.1	1.06	1.10	1.14	250.1	1.81	2.59	3.58	80.0	1.60	1.41	1.27
250.1	280.1	1.04	1.10	1.14	280.1	1.79	2.53	3.47	90.0	1.53	1.35	1.21
280.1	310.1	1.05	1.09	1.13	310.1	1.85	2.63	3.61	100.0	1.57	1.39	1.25
310.1	340.1	1.07	1.12	1.16	340.1	1.88	2.65	3.60	110.0	1.64	1.45	1.30
340.1	370.1	1.06	1.12	1.16	370.1	1.88	2.62	3.55	120.0	1.60	1.41	1.27
370.1	400.1	1.06	1.12	1.17	400.1	1.94	2.71	3.65	130.0	1.53	1.35	1.21
400.1	430.1	1.09	1.15	1.21	430.1	1.99	2.76	3.70	140.0	1.57	1.38	1.24
430.1	460.1	1.09	1.16	1.22	460.1	2.00	2.73	3.64	150.0	1.62	1.43	1.28
460.1	490.1	1.10	1.17	1.23	490.1	2.05	2.81	3.73	160.0	1.58	1.39	1.25
490.1	520.1	1.10	1.17	1.23	520.1	2.12	2.90	3.83	170.0	1.54	1.36	1.22
520.1	550.1	1.12	1.18	1.24	550.1	2.14	2.89	3.81	180.0	1.61	1.42	1.28
550.1	580.1	1.13	1.18	1.23	580.1	2.19	2.95	3.88	190.0	1.63	1.44	1.30
580.1	610.1	1.16	1.21	1.26	610.1	2.28	3.05	3.97	200.0	1.57	1.39	1.24
610.1	640.1	1.22	1.27	1.32	640.1	2.30	3.04	3.93	210.0	1.58	1.39	1.25
640.1	670.1	1.28	1.32	1.37	670.1	2.35	3.08	3.94	220.0	1.64	1.45	1.30
670.1	700.1	1.37	1.41	1.46	700.1	2.45	3.19	4.06	240.0	1.55	1.37	1.23
700.1	730.1	1.48	1.52	1.57	730.1	2.50	3.24	4.09	250.0	1.56	1.43	1.27
730.1	760.1	1.59	1.62	1.66	760.1	2.55	3.29	4.13	270.0	1.59	1.41	1.28
760.1	790.1	1.71	1.75	1.80	790.1	2.63	3.40	4.26	280.0	1.55	1.37	1.24
790.1	820.1	1.81	1.85	1.90	820.1	2.70	3.45	4.31	300.0	1.64	1.46	1.32
820.1	850.1	1.98	2.01	2.05	850.1	2.72	3.45	4.28	310.0	1.59	1.41	1.27
850.1	880.1	2.06	2.11	2.15	880.1	2.77	3.49	4.31	330.0	1.63	1.45	1.31
880.1	910.1	2.18	2.23	2.28	910.1	2.82	3.53	4.32	340.0	1.63	1.45	1.31
910.1	940.1	2.36	2.40	2.44	940.1	2.83	3.52	4.26	360.0	1.55	1.38	1.25
940.1	970.1	2.36	2.42	2.46	970.1	2.84	3.49	4.19	370.0	1.61	1.44	1.30
970.1	1000.1	2.52	2.57	2.62	1000.1	2.89	3.51	4.18	390.0	1.54	1.37	1.25
1000.1	1030.1	2.67	2.72	2.77	1030.1	2.91	3.50	4.13	400.0	1.58	1.41	1.28
1030.1	1060.1	2.64	2.68	2.72	1060.1	2.92	3.43	4.03	420.0	1.60	1.43	1.30
1060.1	1090.1	2.80	2.84	2.86	1090.1	2.95	3.42	4.01	430.0	1.54	1.37	1.25
1090.1	1120.1	2.90	2.93	2.96	1120.1	2.95	3.43	3.95	450.0	1.59	1.43	1.31
1120.1	1150.1	2.92	2.94	2.95	1150.1	2.95	3.35	3.84	460.0	1.52	1.36	1.25
1140.1	1170.1	2.95	2.95	2.97	1170.1	2.92	3.35	3.78	480.0	1.58	1.42	1.30
1170.1	1200.1	3.11	3.12	3.13	1200.1	2.95	3.33	3.76	490.0	1.59	1.43	1.33

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	8	18	9	28	14	42	28	39	30	44
1	-	19	+0	31	12	34	19	40	34	48	44	48
2	>90	63	44	66	45	60	44	>70	49	>70	61	>70
3	>90	>70	63	>70	61	>70	57	>70	63	>70	68	>70
4	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
5	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
6	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
7	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
8	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
9	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
10	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
	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: 280.1 MHz; +7.00 dBm
IF OUT: 30 MHz; -20.1 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	17	28	21	41	26	52	39	51	43	59
1	-	19	+0	31	12	36	21	44	35	54	46	56
2	79	59	39	71	40	58	40	60	45	69	60	72
3	>90	47	44	53	50	59	44	58	46	60	57	67
4	>90	>80	59	67	58	66	59	63	53	78	60	>80
5	>90	72	62	63	54	68	53	68	53	78	59	80
6	>90	>80	70	>80	71	>80	73	>80	75	>80	75	>80
7	>90	>80	>80	>80	>80	76	78	78	76	78	68	>80
8	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
9	>90	>80	>80	>80	>80	>80	>80	>80	79	>80	>80	>80
10	>90	>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: 250.1 MHz; -4.00 dBm.
LO IN: 280.1 MHz; +7.00 dBm
IF OUT: 30 MHz; -10.1 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.