

Frequency Mixer

LMX-148

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=+5dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+7	+10	+13			+7	+10	+13			+7	+10	+13
10.1	40.1	6.96	6.58	6.34	10.1	40.1	19.92	21.68	22.98	10.1	40.1	0.46	0.31	0.20
70.4	100.4	7.16	6.73	6.63	70.4	100.4	19.42	20.66	20.96	70.4	100.4	0.65	0.39	0.23
130.7	160.7	7.15	6.72	6.65	130.7	160.7	20.66	21.22	26.31	130.7	160.7	0.64	0.37	0.22
190.9	220.9	7.21	6.74	6.66	190.9	220.9	18.99	20.85	23.93	190.9	220.9	0.58	0.34	0.20
251.2	281.2	7.15	6.74	6.67	251.2	281.2	20.17	21.26	20.42	251.2	281.2	0.56	0.33	0.18
311.5	341.5	7.19	6.77	6.71	311.5	341.5	19.06	21.89	21.74	311.5	341.5	0.57	0.35	0.20
371.8	401.8	7.20	6.80	6.74	371.8	401.8	19.94	18.79	20.70	371.8	401.8	0.59	0.35	0.21
432.0	462.0	7.12	6.80	6.73	432.0	462.0	19.28	19.40	20.75	432.0	462.0	0.60	0.36	0.23
492.3	522.3	7.17	6.80	6.71	492.3	522.3	18.41	18.88	22.26	492.3	522.3	0.64	0.38	0.25
552.6	582.6	7.19	6.81	6.76	552.6	582.6	16.88	17.31	19.92	552.6	582.6	0.58	0.36	0.25
612.9	642.9	7.18	6.79	6.72	612.9	642.9	15.66	17.98	22.09	612.9	642.9	0.52	0.33	0.25
673.1	703.1	7.21	6.82	6.50	673.1	703.1	16.12	18.48	21.34	673.1	703.1	0.50	0.29	0.25
733.4	763.4	7.26	6.84	6.74	733.4	763.4	16.95	18.42	23.29	733.4	763.4	0.54	0.36	0.25
793.7	823.7	7.26	6.84	6.70	793.7	823.7	16.18	18.81	26.77	793.7	823.7	0.56	0.40	0.28
854.0	884.0	7.27	6.82	6.69	854.0	884.0	16.54	18.93	27.23	854.0	884.0	0.64	0.43	0.32
914.2	944.2	7.34	6.89	6.72	914.2	944.2	16.61	19.71	25.93	914.2	944.2	0.75	0.49	0.36
974.5	1004.5	7.36	6.93	6.76	974.5	1004.5	14.79	17.62	21.81	974.5	1004.5	0.84	0.52	0.40
1034.8	1064.8	7.36	6.91	6.70	1034.8	1064.8	13.86	16.34	19.53	1034.8	1064.8	0.85	0.52	0.45
1095.1	1125.1	7.55	7.00	6.98	1095.1	1125.1	13.41	15.66	20.48	1095.1	1125.1	0.92	0.71	0.50
1155.3	1185.3	7.79	7.19	6.93	1155.3	1185.3	12.14	15.93	23.82	1155.3	1185.3	0.89	0.80	0.53
1215.6	1245.6	7.89	7.24	6.92	1215.6	1245.6	11.41	16.77	24.69	1215.6	1245.6	0.85	0.74	0.58
1275.9	1305.9	8.14	7.36	6.99	1275.9	1305.9	11.01	15.49	22.57	1275.9	1305.9	0.81	0.79	0.68
1336.2	1366.2	8.30	7.44	7.04	1336.2	1366.2	11.06	16.19	20.99	1336.2	1366.2	0.84	0.76	0.69
1396.4	1426.4	8.37	7.50	7.09	1396.4	1426.4	11.66	15.91	20.52	1396.4	1426.4	0.85	0.78	0.71
1436.6	1466.6	8.53	7.65	7.19	1436.6	1466.6	11.49	15.30	19.34	1436.6	1466.6	0.80	0.74	0.67
1496.9	1526.9	8.54	7.68	7.24	1496.9	1526.9	11.70	15.69	17.57	1496.9	1526.9	0.78	0.75	0.69
1537.1	1567.1	8.68	7.79	7.30	1537.1	1567.1	11.16	14.19	15.64	1537.1	1567.1	0.76	0.83	0.80
1597.3	1627.3	8.87	7.98	7.47	1597.3	1627.3	10.30	13.24	13.94	1597.3	1627.3	0.71	0.81	0.79
1637.5	1667.5	8.95	8.05	7.57	1637.5	1667.5	10.05	12.45	13.81	1637.5	1667.5	0.62	0.74	0.76
1697.8	1727.8	9.27	8.37	7.78	1697.8	1727.8	9.14	10.98	13.13	1697.8	1727.8	0.55	0.62	0.75
1738.0	1768.0	9.26	8.47	7.95	1738.0	1768.0	8.85	10.53	12.66	1738.0	1768.0	0.56	0.64	0.75
1798.3	1828.3	9.31	8.52	8.04	1798.3	1828.3	9.21	11.38	14.22	1798.3	1828.3	0.67	0.69	0.72
1838.4	1868.4	9.26	8.57	8.20	1838.4	1868.4	10.53	12.92	15.19	1838.4	1868.4	0.74	0.69	0.67
1898.7	1928.7	9.26	8.71	8.43	1898.7	1928.7	12.24	14.30	16.81	1898.7	1928.7	0.83	0.67	0.62
1938.9	1968.9	9.41	8.95	8.72	1938.9	1968.9	12.67	14.97	17.41	1938.9	1968.9	0.92	0.67	0.59
1999.2	2029.2	9.50	9.19	9.03	1999.2	2029.2	14.63	15.99	18.20	1999.2	2029.2	0.76	0.52	0.45
2039.4	2069.4	9.68	9.40	9.27	2039.4	2069.4	15.37	16.13	18.10	2039.4	2069.4	0.71	0.46	0.39
2099.6	2129.6	9.88	9.64	9.58	2099.6	2129.6	16.93	16.52	18.14	2099.6	2129.6	0.57	0.37	0.28
2139.8	2169.8	10.01	9.80	9.75	2139.8	2169.8	17.67	18.08	17.65	2139.8	2169.8	0.56	0.31	0.23
2200.1	2230.1	10.31	10.04	9.96	2200.1	2230.1	17.12	19.70	18.79	2200.1	2230.1	0.47	0.26	0.19

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Frequency Mixer

LMX-148

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=750.1MHz (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)=1500.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+10			+10			+10
730.0	20.1	6.89	10.0	20.1	6.62	1490.0	10.1	7.74
711.5	38.6	6.90	50.5	60.6	6.55	1449.5	50.6	7.62
693.1	57.0	6.86	91.1	101.2	6.57	1408.9	91.2	7.56
674.6	75.5	6.88	131.6	141.7	6.54	1368.4	131.7	7.51
656.2	93.9	6.80	172.2	182.3	6.59	1327.8	172.3	7.54
637.7	112.4	6.81	212.7	222.8	6.61	1287.3	212.8	7.54
619.2	130.9	6.76	253.3	263.4	6.65	1246.7	253.4	7.55
600.8	149.3	6.77	293.8	303.9	6.67	1206.2	293.9	7.56
582.3	167.8	6.75	334.4	344.5	6.67	1165.6	334.5	7.53
563.8	186.3	6.75	374.9	385.0	6.72	1125.1	375.0	7.40
545.4	204.7	6.75	415.5	425.6	6.71	1084.5	415.6	7.54
526.9	223.2	6.75	456.0	466.1	6.76	1044.0	456.1	7.54
508.5	241.6	6.74	496.6	506.7	6.79	1003.4	496.7	7.53
490.0	260.1	6.77	537.1	547.2	6.79	962.9	537.2	7.52
471.5	278.6	6.74	577.7	587.8	6.82	922.3	577.8	7.52
453.1	297.0	6.74	618.2	628.3	6.81	881.8	618.3	7.48
434.6	315.5	6.76	658.8	668.9	6.86	841.2	658.9	7.54
416.2	333.9	6.75	699.3	709.4	6.89	800.7	699.4	7.47
397.7	352.4	6.76	739.9	750.0	6.97	760.1	740.0	7.47
379.2	370.9	6.72	780.4	790.5	6.97	719.6	780.5	7.45
360.8	389.3	6.75	821.0	831.1	6.96	679.0	821.1	7.36
342.3	407.8	6.73	861.5	871.6	7.08	638.5	861.6	7.36
323.8	426.3	6.74	902.1	912.2	7.15	597.9	902.2	7.36
305.4	444.7	6.73	942.6	952.7	7.24	557.4	942.7	7.36
286.9	463.2	6.72	983.2	993.3	7.29	516.8	983.3	7.30
268.5	481.6	6.71	1023.7	1033.8	7.31	476.3	1023.8	7.24
250.0	500.1	6.71	1064.2	1074.3	7.29	435.8	1064.3	7.27
231.5	518.6	6.69	1104.8	1114.9	7.24	395.2	1104.9	7.22
213.1	537.0	6.70	1145.3	1155.4	7.22	354.7	1145.4	7.20
194.6	555.5	6.68	1185.9	1196.0	7.19	314.1	1186.0	7.15
176.2	573.9	6.68	1226.4	1236.5	7.16	273.6	1226.5	7.10
157.7	592.4	6.67	1246.7	1256.8	7.14	253.3	1246.8	7.07
139.2	610.9	6.66	1287.3	1297.4	7.13	212.7	1287.4	7.08
120.8	629.3	6.66	1307.5	1317.6	7.14	192.5	1307.6	7.04
102.3	647.8	6.62	1348.1	1358.2	7.18	151.9	1348.2	7.04
83.8	666.3	6.66	1368.4	1378.5	7.20	131.6	1368.5	7.02
65.4	684.7	6.64	1408.9	1419.0	7.21	91.1	1409.0	7.06
46.9	703.2	6.67	1429.2	1439.3	7.21	70.8	1429.3	7.09
28.5	721.6	6.66	1469.7	1479.8	7.21	30.3	1469.8	7.10
10.0	740.1	6.73	1490.0	1500.1	7.24	10.0	1490.1	7.28

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+7	+10	+13	+7	+10	+13
10.1	65.44	65.15	64.15	61.64	59.83	59.78
70.4	54.69	54.86	54.56	53.22	50.29	49.50
130.7	49.96	50.16	50.11	48.03	45.90	44.39
190.9	46.92	47.10	47.29	45.31	43.16	42.03
251.2	44.63	44.95	45.17	43.05	41.22	40.17
311.5	43.19	43.53	43.68	41.61	39.79	38.73
371.8	41.99	42.32	42.46	40.10	38.53	37.21
432.0	40.87	41.13	41.42	39.11	37.46	36.27
492.3	40.01	40.38	40.64	38.21	36.71	35.47
552.6	39.35	39.72	39.96	36.59	35.41	34.27
612.9	38.55	39.00	39.26	35.32	34.50	33.64
673.1	37.97	38.17	38.75	34.11	33.53	32.86
733.4	37.62	37.95	38.05	32.65	32.59	32.19
793.7	37.59	37.79	37.67	31.42	31.64	31.47
854.0	37.68	37.75	37.70	30.33	30.39	30.44
914.2	37.84	37.64	37.48	29.60	29.67	29.58
974.5	38.12	37.64	37.47	29.17	29.38	29.24
1034.8	38.55	37.84	37.60	28.21	28.70	28.83
1095.1	39.19	38.62	37.79	27.38	28.28	28.65
1155.3	39.96	38.81	37.95	26.75	27.84	28.14
1215.6	40.32	39.20	38.25	25.66	26.84	27.41
1275.9	40.60	39.60	38.54	24.82	26.03	26.84
1336.2	41.08	40.20	38.95	24.11	25.38	26.11
1396.4	42.03	41.04	39.63	23.44	25.18	25.41
1436.6	42.85	40.84	39.95	23.23	24.54	25.05
1496.9	44.90	42.10	40.96	22.76	23.56	24.33
1537.1	46.06	43.09	41.80	22.68	23.45	24.19
1597.3	47.81	46.19	44.23	22.26	23.19	23.93
1637.5	46.89	48.15	46.45	22.04	22.99	23.74
1697.8	42.85	47.71	51.67	21.89	22.93	23.83
1738.0	40.60	45.47	52.85	21.69	22.88	24.00
1798.3	38.36	42.79	51.32	21.68	22.90	24.28
1838.4	36.97	41.34	49.33	21.31	22.62	24.16
1898.7	35.32	39.55	45.45	20.94	22.41	24.12
1938.9	34.99	39.16	44.55	20.74	22.19	23.95
1999.2	33.66	37.47	42.55	20.27	21.62	23.90
2039.4	33.72	37.58	42.11	20.32	21.80	24.00
2099.6	33.05	37.32	40.93	20.20	21.71	24.10
2139.8	33.58	38.55	41.20	20.35	22.13	24.13
2200.1	33.38	39.50	40.34	20.52	24.15	24.28

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+7	+10	+13
10.1	40.1	52.15	54.97	55.20
70.4	100.4	36.86	37.04	37.18
130.7	160.7	32.00	32.50	32.77
190.9	220.9	29.35	29.83	29.95
251.2	281.2	27.58	28.02	28.31
311.5	341.5	26.30	26.76	27.15
371.8	401.8	25.54	26.07	26.56
432.0	462.0	25.22	25.77	26.30
492.3	522.3	24.92	25.58	26.03
552.6	582.6	24.82	25.52	26.04
612.9	642.9	25.11	26.19	26.46
673.1	703.1	25.12	26.88	26.69
733.4	763.4	24.47	24.68	26.21
793.7	823.7	23.89	24.51	25.39
854.0	884.0	23.25	23.92	24.16
914.2	944.2	22.21	22.64	22.48
974.5	1004.5	21.38	21.42	21.43
1034.8	1064.8	20.45	20.06	20.55
1095.1	1125.1	19.51	18.77	19.41
1155.3	1185.3	19.09	19.04	18.71
1215.6	1245.6	18.86	18.32	18.13
1275.9	1305.9	18.62	17.78	17.75
1336.2	1366.2	18.43	17.24	17.42
1396.4	1426.4	18.09	17.36	16.97
1436.6	1466.6	17.94	18.07	16.76
1496.9	1526.9	17.57	17.48	16.42
1537.1	1567.1	17.31	17.06	16.26
1597.3	1627.3	16.81	16.45	15.82
1637.5	1667.5	16.46	16.00	15.50
1697.8	1727.8	15.92	15.38	15.08
1738.0	1768.0	15.51	14.96	14.68
1798.3	1828.3	14.92	14.21	13.90
1838.4	1868.4	14.39	13.64	13.44
1898.7	1928.7	13.53	12.86	12.78
1938.9	1968.9	13.20	12.56	12.44
1999.2	2029.2	12.60	12.06	12.01
2039.4	2069.4	12.45	11.93	11.79
2099.6	2129.6	12.08	11.76	11.40
2139.8	2169.8	12.00	11.93	11.18
2200.1	2230.1	11.82	12.77	10.94

Frequency Mixer

LMX-148

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1500.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+7	+10	+13		+7	+10	+13		+7	+10	+13
10.1	40.1	1.23	1.30	1.36	10.1	1.67	2.42	3.20	10.0	1.65	1.48	1.41
70.4	100.4	1.16	1.25	1.31	70.4	1.60	2.35	3.27	49.7	1.93	1.49	1.25
130.7	160.7	1.17	1.26	1.33	130.7	1.67	2.45	3.40	89.5	1.90	1.49	1.25
190.9	220.9	1.19	1.27	1.33	190.9	1.66	2.37	3.24	129.2	1.85	1.50	1.28
251.2	281.2	1.22	1.29	1.34	251.2	1.62	2.36	3.26	168.9	1.92	1.50	1.25
311.5	341.5	1.23	1.29	1.33	311.5	1.67	2.38	3.25	208.7	1.85	1.50	1.28
371.8	401.8	1.27	1.30	1.34	371.8	1.74	2.48	3.31	248.4	1.87	1.49	1.25
432.0	462.0	1.30	1.33	1.36	432.0	1.70	2.39	3.26	288.1	1.82	1.46	1.25
492.3	522.3	1.33	1.35	1.37	492.3	1.70	2.39	3.20	327.9	1.79	1.45	1.24
552.6	582.6	1.36	1.35	1.37	552.6	1.80	2.52	3.33	367.6	1.80	1.45	1.24
612.9	642.9	1.39	1.40	1.39	612.9	1.76	2.44	3.23	407.3	1.74	1.42	1.23
673.1	703.1	1.42	1.46	1.39	673.1	1.76	2.42	3.18	447.1	1.79	1.45	1.26
733.4	763.4	1.43	1.37	1.41	733.4	1.85	2.52	3.25	486.8	1.74	1.43	1.25
793.7	823.7	1.45	1.40	1.42	793.7	1.86	2.49	3.18	526.5	1.74	1.44	1.26
854.0	884.0	1.45	1.42	1.40	854.0	1.84	2.45	3.14	566.3	1.77	1.46	1.29
914.2	944.2	1.47	1.43	1.38	914.2	1.90	2.50	3.17	606.0	1.72	1.43	1.26
974.5	1004.5	1.47	1.42	1.37	974.5	1.97	2.54	3.17	645.7	1.76	1.47	1.30
1034.8	1064.8	1.46	1.38	1.36	1034.8	1.94	2.47	3.13	685.5	1.73	1.46	1.30
1095.1	1125.1	1.47	1.31	1.37	1095.1	1.95	2.46	3.07	725.2	1.74	1.48	1.30
1155.3	1185.3	1.50	1.48	1.38	1155.3	2.03	2.55	3.13	764.9	1.75	1.51	1.34
1215.6	1245.6	1.53	1.48	1.40	1215.6	2.03	2.51	3.04	804.7	1.74	1.49	1.33
1275.9	1305.9	1.58	1.49	1.42	1275.9	2.02	2.49	3.04	844.4	1.74	1.49	1.35
1336.2	1366.2	1.59	1.49	1.42	1336.2	2.07	2.54	3.06	884.1	1.73	1.51	1.37
1396.4	1426.4	1.57	1.47	1.40	1396.4	2.07	2.51	3.01	923.9	1.75	1.51	1.36
1436.6	1466.6	1.56	1.46	1.39	1436.6	2.09	2.53	3.04	963.6	1.72	1.52	1.40
1496.9	1526.9	1.53	1.43	1.37	1496.9	2.05	2.43	2.94	1003.3	1.76	1.56	1.40
1537.1	1567.1	1.51	1.42	1.36	1537.1	2.09	2.49	2.97	1043.1	1.70	1.52	1.38
1597.3	1627.3	1.48	1.40	1.35	1597.3	2.07	2.46	2.93	1082.8	1.71	1.57	1.43
1637.5	1667.5	1.46	1.39	1.34	1637.5	2.10	2.49	2.98	1122.5	1.72	1.57	1.40
1697.8	1727.8	1.46	1.40	1.35	1697.8	2.11	2.48	2.94	1162.3	1.66	1.57	1.42
1738.0	1768.0	1.46	1.41	1.37	1738.0	2.11	2.48	2.95	1202.0	1.71	1.63	1.45
1798.3	1828.3	1.50	1.47	1.44	1798.3	2.14	2.49	2.95	1241.7	1.65	1.60	1.42
1838.4	1868.4	1.55	1.54	1.52	1838.4	2.13	2.46	2.92	1281.5	1.64	1.66	1.46
1898.7	1928.7	1.68	1.67	1.67	1898.7	2.14	2.48	2.93	1321.2	1.64	1.67	1.43
1938.9	1968.9	1.78	1.78	1.77	1938.9	2.21	2.56	2.98	1360.9	1.55	1.65	1.43
1999.2	2029.2	1.96	1.96	1.95	1999.2	2.26	2.54	3.00	1380.8	1.52	1.59	1.41
2039.4	2069.4	2.08	2.09	2.08	2039.4	2.35	2.64	3.05	1420.5	1.56	1.19	1.45
2099.6	2129.6	2.28	2.30	2.28	2099.6	2.46	2.68	3.09	1440.4	1.52	1.04	1.43
2139.8	2169.8	2.42	2.45	2.44	2139.8	2.55	2.75	3.14	1480.1	1.48	1.18	1.43
2200.1	2230.1	2.61	2.70	2.65	2200.1	2.67	2.83	3.20	1500.0	1.60	1.49	1.83

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	15	27	21	37	30	42	39	60	72	76
1	-	19	+0	30	14	43	26	40	49	41	60	61
2	86	57	39	57	38	65	39	52	52	57	53	72
3	>100	48	50	49	47	57	43	58	55	57	59	54
4	>100	81	63	71	61	72	65	87	61	72	70	63
5	>100	73	65	68	57	66	55	65	55	63	59	69
6	>100	>93	92	86	79	83	72	77	68	77	66	75
7	>100	83	88	86	82	>93	84	85	81	82	79	84
8	>100	>93	>93	>93	>93	>93	88	>93	88	91	87	93
9	>100	>93	>93	>93	>93	>93	91	>93	88	92	87	>93
10	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 750.1 MHz; 0.00 dBm.
 LO IN: 780.01 MHz; +10.00 dBm
 IF OUT: 29.91 MHz; -6.9 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	5	17	9	25	19	29	25	53	52	56
1	-	19	+0	31	14	41	26	36	48	35	52	54
2	99	65	46	67	46	80	47	62	58	60	66	66
3	>100	66	63	66	59	68	58	67	63	73	72	79
4	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
5	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
6	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
7	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
8	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
9	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
10	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 750.1 MHz; -10.00 dBm.
 LO IN: 780.01 MHz; +10.00 dBm
 IF OUT: 29.91 MHz; -16.92 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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