

Frequency Mixer

LMX-113

Typical Performance Data

RF (MHz)	LO (MHz)	CONVERSION LOSS (dB)			LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
		@LO (dBm)				@LO (dBm)			@LO (dBm)		
		+14	+17	+20		+14	+17	+20	+14	+17	+20
5.0	35.0	5.75	5.42	5.22	5.0	74.8	75.2	74.9	72.0	68.7	67.3
10.0	40.0	5.86	5.49	5.28	10.0	71.9	71.3	71.4	66.0	63.3	62.1
20.0	50.0	5.90	5.54	5.31	20.0	67.0	66.3	66.3	60.2	57.4	56.4
35.2	65.2	5.86	5.50	5.28	35.2	62.5	61.7	61.6	55.4	52.7	51.3
50.0	80.0	5.80	5.46	5.25	50.0	59.6	58.9	58.4	52.3	49.5	47.9
65.3	95.3	5.75	5.43	5.22	65.3	57.5	56.9	56.7	50.3	47.6	46.3
100.0	70.0	5.71	5.39	5.21	100.0	54.4	53.7	53.2	47.3	44.4	42.9
155.8	125.8	5.69	5.37	5.20	155.8	51.3	50.6	49.8	43.9	41.2	39.8
200.0	170.0	5.87	5.53	5.37	200.0	49.3	48.4	47.9	41.9	39.5	38.1
246.2	216.2	5.82	5.53	5.36	246.2	48.0	47.0	46.4	40.6	38.2	36.6
336.7	306.7	5.61	5.32	5.20	336.7	45.2	44.2	43.4	37.0	35.5	33.7
427.1	397.1	5.87	5.56	5.31	427.1	42.9	41.9	41.6	33.3	32.0	31.0
500.0	470.0	5.89	5.48	5.27	500.0	41.8	40.8	40.2	31.1	30.7	30.3
547.7	517.7	5.81	5.44	5.27	547.7	40.5	39.6	39.1	29.5	29.3	29.1
608.0	578.0	5.91	5.58	5.35	608.0	39.9	38.5	38.1	28.8	28.5	28.1
668.3	638.3	6.28	5.92	5.49	668.3	38.2	37.4	36.5	27.0	27.2	26.6
758.8	728.8	6.40	5.97	5.52	758.8	36.4	36.3	35.8	24.8	25.5	25.5
819.1	789.1	6.71	6.06	5.63	819.1	36.0	36.0	35.4	24.1	24.7	24.6
909.5	879.1	7.45	6.45	5.76	909.5	35.6	35.8	35.4	23.0	23.4	23.6
1000.0	970.0	7.89	6.93	6.05	1000.0	36.3	36.4	36.0	22.7	23.1	23.2

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Typical Performance Data

RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)			LO/RF (MHz)	max. DC output (mV)	DC Offset (mV)
	@LO (dBm)			@LO (dBm)				@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20		+14	+17	+20	+17		
5.0	1.13	1.12	1.15	1.43	2.13	3.03	5.0	1.48	1.29	1.14	5.0	-241.7	-0.09
10.0	1.08	1.06	1.10	1.42	2.10	3.02	10.0	1.49	1.29	1.15	10.0	-241.0	-0.09
20.0	1.06	1.02	1.08	1.38	2.06	2.99	20.0	1.49	1.29	1.15	20.0	-239.1	-0.09
35.2	1.05	1.02	1.08	1.47	2.18	3.14	35.2	1.48	1.29	1.14	35.2	-242.8	-0.08
50.0	1.05	1.03	1.09	1.49	2.15	3.11	50.0	1.48	1.29	1.15	50.0	-247.3	-0.08
65.3	1.05	1.03	1.09	1.41	2.10	3.06	65.3	1.49	1.29	1.15	65.3	-244.7	-0.08
100.0	1.06	1.05	1.09	1.41	2.09	3.00	100.0	1.50	1.30	1.16	100.0	-244.0	-0.10
155.8	1.09	1.07	1.11	1.41	2.05	2.94	155.8	1.53	1.33	1.19	155.8	-244.0	-0.13
200.0	1.11	1.09	1.12	1.40	2.04	2.88	200.0	1.55	1.35	1.21	200.0	-257.5	-0.03
246.2	1.13	1.12	1.14	1.43	2.06	2.96	246.2	1.58	1.38	1.24	246.2	-260.2	-0.04
336.7	1.17	1.16	1.18	1.47	2.03	2.80	336.7	1.64	1.43	1.29	336.7	-228.7	0.74
427.1	1.22	1.21	1.22	1.56	2.10	2.89	427.1	1.70	1.50	1.35	427.1	-232.2	0.38
500.0	1.27	1.26	1.27	1.65	2.19	3.00	500.0	1.75	1.55	1.40	500.0	-252.3	0.34
547.7	1.30	1.29	1.30	1.69	2.25	3.06	547.7	1.80	1.59	1.45	547.7	-242.1	0.70
608.0	1.35	1.33	1.34	1.74	2.20	2.93	608.0	1.81	1.61	1.47	608.0	-218.4	1.19
668.3	1.41	1.39	1.39	1.82	2.32	3.05	668.3	1.84	1.66	1.52	668.3	-193.2	1.30
758.8	1.52	1.49	1.48	1.93	2.42	3.14	758.8	1.85	1.68	1.55	758.8	-214.9	2.01
819.1	1.62	1.58	1.57	2.01	2.54	3.24	819.1	1.84	1.69	1.57	819.1	-208.8	2.92
909.5	1.80	1.75	1.73	2.09	2.63	3.40	909.5	1.81	1.65	1.55	909.5	-192.6	3.72
1000.0	2.03	1.98	1.94	2.03	2.44	3.20	1000.0	1.75	1.59	1.50	1000.0	-198.1	3.94

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