

# Frequency Mixer

# LMX-125MH

## 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
0.5	30.5	7.73	7.33	7.06	0.5	60.3	60.1	60.1	56.9	55.5	55.3
1.0	31.0	7.12	6.76	6.49	1.0	57.5	57.8	58.6	55.1	54.4	54.9
2.0	32.0	6.50	6.15	5.94	2.0	55.9	56.1	56.9	53.7	53.5	53.9
10.0	40.0	6.02	5.71	5.53	10.0	53.1	52.5	52.0	51.1	50.1	49.7
20.0	50.0	6.03	5.72	5.52	20.0	51.0	49.8	48.9	48.9	47.5	46.7
50.0	80.0	5.98	5.72	5.56	50.0	48.0	46.7	45.5	45.9	44.4	43.3
81.1	51.1	5.98	5.71	5.55	81.1	46.6	45.3	44.3	44.7	43.1	42.1
113.3	83.3	6.11	5.75	5.58	113.3	44.6	43.4	42.3	42.9	41.4	40.4
161.6	131.6	6.15	5.79	5.60	161.6	43.1	41.7	40.7	41.3	39.7	38.8
193.9	163.9	6.24	5.84	5.68	193.9	41.8	40.3	39.3	40.0	38.4	37.5
226.1	196.1	6.23	5.88	5.76	226.1	41.2	40.1	39.0	39.3	37.8	37.1
242.2	212.2	6.22	5.87	5.75	242.2	39.9	40.0	37.8	38.1	36.9	36.2
274.4	244.4	6.06	5.77	5.64	274.4	39.4	38.6	37.2	37.2	36.1	35.4
306.7	276.7	5.88	5.67	5.56	306.7	38.5	37.5	36.4	36.3	35.4	35.0
338.9	308.9	5.94	5.75	5.63	338.9	37.1	36.4	35.7	35.7	34.9	34.3
371.1	341.1	6.35	6.10	5.94	371.1	37.6	36.5	35.2	35.0	34.4	33.7
403.3	373.3	6.07	5.84	5.67	403.3	37.5	36.2	34.7	34.4	33.9	33.5
435.6	405.6	6.36	6.10	5.84	435.6	37.4	35.6	34.5	34.0	33.7	33.0
467.8	437.8	6.41	6.11	5.83	467.8	37.1	35.3	34.0	33.4	33.3	32.6
500.0	470.0	6.28	5.97	5.75	500.0	36.6	35.2	33.0	32.9	32.8	31.7

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

# LMX-125MH

## 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	1.45	1.25	1.25	1.41	2.21	3.42	5.0	1.59	1.37	1.24	0.5	-486.9	-1.78
10.0	1.24	1.13	1.12	1.36	2.15	3.35	10.0	1.60	1.37	1.24	2.0	-563.6	-1.76
34.1	1.12	1.05	1.04	1.39	2.21	3.46	34.1	1.57	1.36	1.24	10.0	-579.5	-1.68
50.0	1.12	1.04	1.04	1.37	2.22	3.48	50.0	1.58	1.36	1.23	32.7	-583.8	-1.71
77.8	1.11	1.04	1.05	1.32	2.10	3.21	77.8	1.57	1.36	1.23	50.0	-578.2	-1.71
100.0	1.11	1.04	1.06	1.27	2.02	3.06	100.0	1.56	1.36	1.23	81.1	-557.9	-1.67
136.0	1.11	1.04	1.07	1.29	2.06	3.08	136.0	1.57	1.36	1.23	100.0	-544.0	-1.60
165.2	1.10	1.04	1.07	1.27	2.02	2.96	165.2	1.56	1.36	1.23	129.4	-544.9	-1.36
194.3	1.09	1.04	1.09	1.28	2.01	3.00	194.3	1.57	1.36	1.23	161.6	-547.8	-1.40
208.8	1.09	1.04	1.09	1.26	1.98	2.91	208.8	1.57	1.36	1.23	193.9	-554.5	-1.41
237.9	1.07	1.05	1.10	1.29	2.00	2.88	237.9	1.56	1.36	1.23	210.0	-555.9	-1.24
267.1	1.06	1.05	1.12	1.32	1.99	2.90	267.1	1.57	1.36	1.23	242.2	-565.0	-1.06
310.7	1.04	1.06	1.14	1.33	1.99	2.89	310.7	1.57	1.37	1.23	274.4	-582.3	-1.20
339.9	1.02	1.07	1.15	1.32	2.00	2.80	339.9	1.59	1.37	1.23	306.7	-564.9	-0.45
369.0	1.01	1.08	1.17	1.33	2.07	2.82	369.0	1.59	1.37	1.22	338.9	-531.6	0.41
398.1	1.02	1.10	1.19	1.35	2.06	2.82	398.1	1.60	1.38	1.22	371.1	-506.3	0.41
427.2	1.05	1.12	1.21	1.41	2.08	2.86	427.2	1.60	1.38	1.23	403.3	-501.1	0.26
456.3	1.07	1.14	1.23	1.42	2.08	2.84	456.3	1.60	1.38	1.23	435.6	-497.5	0.39
485.4	1.10	1.17	1.26	1.46	2.15	2.88	485.4	1.60	1.39	1.23	467.8	-498.9	0.05
500.0	1.12	1.18	1.27	1.49	2.15	2.90	500.0	1.61	1.39	1.24	500.0	-517.5	-0.33

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