

Frequency Mixer

LMX-123MH

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)		
		+10	+13	+16		+10	+13	+16	+10	+13	+16
10.0	40.0	6.66	5.96	5.69	10.0	43.3	47.2	50.8	32.6	36.6	40.2
20.0	50.0	6.61	5.94	5.65	20.0	45.5	49.3	52.3	33.2	37.4	41.5
50.0	80.0	6.71	6.02	5.73	50.0	47.2	51.0	53.6	33.3	37.5	41.2
100.0	70.0	6.75	6.07	5.84	100.0	47.4	51.1	52.6	32.4	36.3	39.3
200.0	170.0	6.86	6.17	5.90	200.0	49.1	49.6	48.2	32.4	35.7	37.1
251.0	221.0	6.91	6.21	5.95	251.0	49.2	47.5	46.7	32.4	35.2	35.8
491.9	461.9	7.07	6.37	5.96	491.9	43.8	43.4	42.7	33.4	33.0	31.7
500.0	470.0	7.10	6.40	5.97	500.0	43.5	43.2	42.5	33.3	32.8	31.5
732.9	702.9	7.36	6.57	6.10	732.9	40.2	39.2	39.0	32.8	30.5	28.8
973.9	943.9	7.47	6.58	6.13	973.9	42.7	40.5	39.3	32.8	29.3	27.4
1000.0	970.0	7.45	6.53	6.10	1000.0	43.4	40.7	39.3	32.8	29.0	27.1
1214.8	1184.8	8.18	7.15	6.66	1214.8	57.0	45.7	42.8	32.0	28.1	26.0
1250.0	1220.0	8.32	7.24	6.73	1250.0	54.9	48.7	44.8	32.3	28.2	25.8
1455.8	1425.8	9.02	7.63	6.92	1455.8	44.8	46.7	47.1	30.4	28.0	26.4
1696.8	1666.8	9.25	7.81	7.18	1696.8	41.1	41.6	41.7	29.0	27.8	26.9
1937.7	1907.7	9.44	7.88	7.26	1937.7	36.1	36.1	36.3	29.1	28.3	27.9
2000.0	1907.7	9.25	7.76	7.15	2000.0	35.2	35.3	35.7	29.0	28.3	28.1
2178.7	2148.7	8.62	7.48	6.98	2178.7	32.5	32.5	33.5	28.6	28.6	29.2
2419.7	2389.7	8.10	7.17	6.79	2419.7	30.4	30.8	32.1	27.4	27.8	29.0
2500.0	2470.0	8.12	7.18	6.81	2500.0	32.0	32.2	33.7	29.4	29.5	30.5

Notes

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCULStore/terms.jsp



Frequency Mixer

LMX-123MH

Typical Performance Data

RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)		
	@LO (dBm)			@LO (dBm)				@LO (dBm)		
	+10	+13	+16	+10	+13	+16		+10	+13	+16
10.0	1.74	1.46	1.29	1.16	1.41	2.12	10.0	1.58	1.16	1.05
20.0	1.75	1.46	1.29	1.11	1.44	2.15	20.0	1.57	1.15	1.04
50.0	1.75	1.46	1.28	1.14	1.40	2.06	50.0	1.53	1.14	1.05
100.0	1.72	1.45	1.28	1.21	1.33	1.99	100.0	1.53	1.14	1.05
200.0	1.74	1.47	1.31	1.28	1.29	1.90	200.0	1.51	1.13	1.05
408.4	1.88	1.62	1.47	1.45	1.25	1.77	408.4	1.48	1.12	1.05
500.0	2.02	1.73	1.57	1.55	1.24	1.70	500.0	1.47	1.15	1.05
682.3	2.38	2.08	1.90	1.78	1.27	1.56	682.3	1.47	1.13	1.03
881.5	2.69	2.37	2.17	2.15	1.35	1.39	881.5	1.50	1.18	1.06
1000.0	2.78	2.45	2.24	2.50	1.49	1.30	1000.0	1.54	1.24	1.12
1155.4	2.76	2.41	2.22	2.74	1.58	1.23	1155.4	1.63	1.35	1.22
1250.0	2.69	2.36	2.17	2.84	1.62	1.15	1250.0	1.71	1.43	1.30
1429.3	2.55	2.24	2.05	2.69	1.61	1.09	1429.3	1.86	1.58	1.43
1628.5	2.54	2.24	2.05	2.72	1.62	1.04	1628.5	1.99	1.68	1.52
1827.7	2.49	2.23	2.06	2.44	1.55	1.05	1827.7	2.06	1.73	1.56
2000.0	2.28	2.06	1.92	2.45	1.56	1.10	2000.0	1.97	1.66	1.49
2101.6	2.15	1.94	1.82	2.57	1.61	1.12	2101.6	1.86	1.57	1.42
2300.8	1.92	1.75	1.65	2.47	1.61	1.25	2300.8	1.64	1.41	1.29
2425.3	1.86	1.70	1.59	2.26	1.57	1.42	2425.3	1.55	1.37	1.29
2500.0	1.83	1.68	1.57	2.16	1.56	1.48	2500.0	1.52	1.37	1.31

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