

Frequency Mixer

LRMS-1R

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
0.5	30.5	7.81	7.45	7.25	0.5	77.5	89.0	86.4	58.6	64.4	71.9
1.0	31.0	7.02	6.68	6.52	1.0	76.8	82.7	81.2	59.1	64.4	70.7
2.0	32.0	6.45	6.15	6.00	2.0	74.4	76.6	75.4	58.9	63.5	66.0
5.0	35.0	6.12	5.84	5.69	5.0	69.0	68.8	68.0	57.6	59.7	59.6
10.0	40.0	6.09	5.78	5.64	10.0	63.9	63.5	62.8	55.5	55.4	54.5
20.0	50.0	6.18	5.84	5.66	20.0	57.3	56.9	56.6	50.3	49.0	48.1
50.0	80.0	6.16	5.84	5.67	50.0	48.3	48.1	49.9	42.2	40.8	41.0
67.1	97.1	6.07	5.78	5.63	67.1	47.1	47.3	48.5	41.0	39.6	39.5
100.0	70.0	6.01	5.74	5.59	100.0	45.6	45.4	45.0	38.5	36.9	35.9
117.1	87.1	5.99	5.71	5.57	117.1	45.2	45.2	44.8	38.0	36.3	35.3
150.4	120.4	6.00	5.73	5.59	150.4	45.1	44.1	42.8	36.8	34.8	33.2
200.0	170.0	6.06	5.78	5.63	200.0	43.9	42.0	40.6	35.3	32.9	31.0
217.0	187.0	6.14	5.84	5.66	217.0	42.3	40.7	39.7	34.6	32.2	30.2
250.0	220.0	6.25	5.91	5.72	250.0	40.1	38.6	37.5	32.8	30.6	28.9
283.6	253.6	6.13	5.81	5.64	283.6	38.4	37.0	35.9	31.3	29.2	27.4
333.5	303.5	6.11	5.81	5.69	333.5	35.2	34.2	33.0	28.7	27.0	25.5
383.5	353.5	6.31	6.03	5.90	383.5	32.2	31.2	30.1	27.0	25.6	24.2
433.4	403.4	6.63	6.34	6.21	433.4	30.1	29.2	28.6	24.8	23.9	22.7
466.7	436.7	6.92	6.56	6.43	466.7	29.0	27.7	27.0	24.0	22.8	21.6
500.0	470.0	7.25	6.82	6.59	500.0	28.3	27.1	26.4	23.1	22.3	21.2

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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)					
	+10	+13	+16	+10	+13	+16		+10	+13	+16	+13		
5.0	1.13	1.11	1.12	1.58	2.27	3.21	5.0	1.41	1.24	1.12	0.5	233.1	-0.09
10.0	1.10	1.05	1.07	1.57	2.27	3.08	10.0	1.41	1.25	1.13	1.0	240.6	-0.08
20.0	1.09	1.02	1.05	1.68	2.43	3.34	20.0	1.41	1.24	1.13	5.0	245.9	-0.07
34.1	1.09	1.01	1.05	1.75	2.52	3.51	34.1	1.40	1.24	1.12	10.0	246.2	-0.06
50.0	1.09	1.01	1.05	1.77	2.50	3.52	50.0	1.41	1.24	1.12	20.0	245.3	-0.05
63.2	1.09	1.02	1.06	1.77	2.50	3.50	63.2	1.41	1.24	1.12	33.8	242.3	-0.03
77.8	1.09	1.03	1.06	1.72	2.48	3.45	77.8	1.41	1.24	1.13	50.0	238.7	-0.01
92.4	1.09	1.04	1.06	1.69	2.43	3.36	92.4	1.41	1.24	1.13	50.5	238.6	-0.01
100.0	1.10	1.04	1.06	1.67	2.40	3.33	100.0	1.41	1.24	1.13	67.1	235.6	-0.02
150.6	1.11	1.07	1.09	1.66	2.38	3.21	150.6	1.42	1.25	1.13	117.1	236.7	-0.22
194.3	1.13	1.09	1.11	1.63	2.29	3.12	194.3	1.42	1.26	1.14	167.0	245.0	0.09
223.4	1.15	1.11	1.13	1.63	2.29	3.10	223.4	1.43	1.27	1.15	200.0	241.0	0.37
250.0	1.16	1.13	1.14	1.63	2.25	3.03	250.0	1.42	1.25	1.14	217.0	238.6	0.89
296.2	1.19	1.17	1.18	1.64	2.28	3.03	296.2	1.44	1.28	1.16	266.9	244.0	1.77
325.3	1.22	1.19	1.20	1.67	2.30	2.97	325.3	1.46	1.29	1.18	300.2	249.6	2.52
354.4	1.25	1.22	1.24	1.68	2.23	2.87	354.4	1.46	1.30	1.18	333.5	251.5	4.04
398.1	1.29	1.28	1.29	1.72	2.29	2.91	398.1	1.46	1.30	1.19	383.5	243.6	5.99
427.2	1.32	1.31	1.32	1.73	2.24	2.82	427.2	1.46	1.31	1.20	416.8	235.0	7.51
470.9	1.38	1.37	1.38	1.81	2.34	2.95	470.9	1.46	1.31	1.21	466.7	221.1	9.24
500.0	1.43	1.43	1.43	1.83	2.31	2.89	500.0	1.45	1.31	1.21	500.0	216.5	11.38

