

Frequency Mixer

LRMS-5R

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
5.0	35.0	6.56	6.17	5.95	5.0	77.6	78.3	78.5	69.0	82.1	77.0
10.0	40.0	6.45	6.03	5.79	10.0	71.7	73.1	73.9	63.3	75.4	72.8
20.0	50.0	6.30	5.86	5.58	20.0	65.8	67.4	68.7	56.9	67.3	69.1
50.0	80.0	5.86	5.46	5.27	50.0	58.2	60.2	62.0	49.8	61.2	60.2
100.0	70.0	5.65	5.31	5.14	100.0	51.8	53.7	55.7	43.7	53.9	54.9
149.7	119.7	5.65	5.33	5.15	149.7	48.1	50.1	51.9	40.1	50.8	51.0
200.0	170.0	5.67	5.37	5.22	200.0	45.7	47.5	49.4	37.7	48.2	48.9
246.1	216.1	5.89	5.54	5.34	246.1	44.0	45.9	47.8	36.2	48.7	44.3
342.6	312.6	6.12	5.71	5.44	342.6	41.2	43.1	45.0	34.6	48.7	38.4
439.0	409.0	6.17	5.77	5.51	439.0	38.9	40.8	42.4	34.2	43.8	33.7
500.0	470.0	6.52	5.97	5.64	500.0	37.8	39.7	41.6	35.2	38.4	30.8
583.7	553.7	6.87	6.25	5.90	583.7	36.9	39.2	41.5	35.7	33.2	27.5
680.2	650.2	7.26	6.55	6.09	680.2	35.9	38.3	40.2	33.8	29.3	24.5
750.0	720.0	7.71	6.89	6.36	750.0	35.6	37.6	38.9	30.6	26.8	23.2
873.1	843.1	8.22	7.45	6.96	873.1	34.7	36.9	37.9	25.2	21.6	19.4
1000.0	970.0	8.19	7.70	7.38	1000.0	33.2	35.5	37.0	20.9	18.1	16.1
1114.2	1084.2	8.20	7.76	7.48	1114.2	31.8	33.7	35.3	18.4	16.3	14.7
1210.6	1180.6	8.39	8.02	7.78	1210.6	30.7	32.5	33.8	16.5	15.0	13.4
1355.3	1325.3	8.78	8.41	8.25	1355.3	29.0	30.9	32.3	14.1	13.3	12.2
1500.0	1470.0	9.59	8.83	8.49	1500.0	26.9	28.6	29.9	12.8	12.3	11.5

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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)		
	+10	+13	+16	+10	+13	+16		+10	+13	+16	+13		
5.0	2.73	2.64	2.55	1.68	2.43	3.47	5.0	1.51	1.21	1.03	5.0	221.9	-0.01
10.0	1.68	1.62	1.58	1.67	2.43	3.47	10.0	1.52	1.22	1.03	10.0	231.0	-0.01
20.0	1.45	1.37	1.32	1.62	2.37	3.38	20.0	1.52	1.22	1.03	20.0	233.7	-0.01
50.0	1.38	1.27	1.19	1.71	2.46	3.47	50.0	1.52	1.21	1.03	50.0	231.2	0.00
100.0	1.41	1.29	1.20	1.63	2.38	3.29	100.0	1.53	1.22	1.04	100.0	236.2	0.06
149.7	1.47	1.34	1.24	1.60	2.33	3.27	149.7	1.53	1.22	1.05	149.7	244.2	0.17
200.0	1.53	1.40	1.30	1.63	2.28	3.20	200.0	1.53	1.22	1.06	200.0	238.7	0.31
246.1	1.61	1.48	1.37	1.62	2.29	3.15	246.1	1.52	1.22	1.06	246.1	241.3	0.63
342.6	1.82	1.68	1.57	1.70	2.29	3.12	342.6	1.51	1.21	1.07	342.6	239.7	1.04
439.0	2.09	1.93	1.80	1.79	2.33	3.12	439.0	1.46	1.19	1.07	439.0	206.1	1.79
500.0	2.27	2.10	1.96	1.86	2.41	3.19	500.0	1.43	1.17	1.07	500.0	203.6	2.00
583.7	2.56	2.36	2.22	1.96	2.48	3.27	583.7	1.35	1.13	1.09	583.7	208.7	3.07
680.2	2.96	2.71	2.52	2.12	2.69	3.40	680.2	1.25	1.08	1.15	680.2	199.2	4.09
750.0	3.17	2.92	2.74	2.25	2.80	3.59	750.0	1.10	1.14	1.30	750.0	193.3	5.44
873.1	3.56	3.32	3.14	2.54	3.09	3.90	873.1	1.07	1.23	1.40	873.1	192.0	6.35
1000.0	3.73	3.56	3.40	2.73	3.20	3.82	1000.0	1.36	1.57	1.75	1000.0	200.9	5.97
1114.2	3.76	3.69	3.53	2.81	3.18	3.93	1114.2	1.81	2.02	2.23	1114.2	188.0	5.59
1210.6	3.79	3.73	3.66	2.95	3.19	3.94	1210.6	2.36	2.60	2.82	1210.6	183.6	5.78
1355.3	3.78	3.75	3.73	3.15	3.12	4.13	1355.3	3.52	3.78	4.03	1355.3	192.0	6.69
1500.0	3.86	3.83	3.80	3.29	2.98	4.30	1500.0	4.99	5.07	5.22	1500.0	185.9	8.33

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