

# Frequency Mixer

# LRMS-30J+

## 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)		
		+4	+7	+10		+4	+7	+10	+4	+7	+10
200.0	230.0	6.30	5.80	5.50	230.0	33.50	33.50	33.16	32.66	31.67	30.83
375.0	405.0	5.31	5.01	4.81	405.0	43.84	40.50	38.50	27.67	26.84	26.66
500.0	530.0	5.21	5.01	4.91	530.0	29.50	29.00	28.50	25.50	25.17	25.00
550.0	580.0	5.08	4.88	4.88	580.0	29.84	29.16	28.66	24.66	24.33	24.16
725.0	755.0	6.03	5.33	4.93	755.0	28.50	29.00	29.33	22.67	22.67	22.50
900.0	930.0	6.86	6.56	6.26	930.0	28.17	28.17	28.50	20.83	21.34	21.50
1000.0	1030.0	6.04	5.94	5.84	1030.0	29.50	28.84	28.50	20.00	20.50	21.17
1075.0	1105.0	5.81	5.61	5.61	1105.0	32.33	31.50	30.33	19.33	20.17	20.83
1250.0	1280.0	6.07	5.97	5.87	1280.0	45.66	40.83	36.16	19.00	20.33	21.50
1425.0	1455.0	7.15	6.85	6.65	1455.0	30.34	31.50	32.50	17.84	19.50	21.16
1600.0	1630.0	7.96	7.56	7.36	1630.0	22.67	23.84	24.66	17.00	18.50	20.33
1775.0	1805.0	7.89	7.49	7.29	1805.0	20.66	20.66	20.50	16.50	17.50	18.67
1950.0	1980.0	8.08	7.68	7.48	1980.0	20.00	19.16	18.16	16.00	16.16	15.83
2000.0	2030.0	8.14	7.74	7.54	2030.0	20.34	19.00	17.83	16.00	15.50	15.16
2125.0	2155.0	8.21	7.71	7.61	2155.0	20.33	18.67	17.17	15.67	14.50	13.67
2300.0	2330.0	8.18	7.58	7.38	2330.0	40.00	31.66	30.50	19.17	17.33	16.16
2475.0	2505.0	7.70	6.90	6.50	2505.0	24.67	25.50	25.83	16.17	15.00	14.33
2650.0	2680.0	6.92	6.32	6.02	2680.0	23.50	24.34	24.34	14.67	14.50	14.50
2825.0	2855.0	6.98	6.68	6.48	2855.0	24.67	24.83	24.50	15.33	15.33	15.67
3000.0	3030.0	7.85	7.55	7.45	3030.0	27.50	27.00	26.67	14.83	15.17	15.50



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RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)		
	@LO (dBm)			@LO (dBm)				@LO (dBm)		
	+4	+7	+10	+4	+7	+10		+4	+7	+10
230.0	7.28	6.26	7.00	2.32	2.14	2.08	10.0	1.74	1.59	1.48
405.0	2.72	3.64	4.77	1.19	1.11	1.06	62.1	1.70	1.58	1.47
530.0	2.14	3.01	3.95	1.12	1.10	1.12	114.2	1.62	1.51	1.41
580.0	2.01	2.76	3.79	1.15	1.13	1.15	166.3	1.52	1.43	1.35
755.0	1.78	2.25	2.92	2.72	2.46	2.30	218.4	1.43	1.35	1.29
930.0	1.29	1.59	2.08	3.86	3.79	3.71	270.5	1.37	1.32	1.29
1030.0	1.21	1.42	1.92	4.12	4.12	4.12	322.6	1.34	1.33	1.35
1105.0	1.11	1.40	1.88	4.12	4.12	4.12	374.7	1.39	1.43	1.49
1280.0	1.22	1.74	2.27	3.64	3.44	3.38	426.8	1.52	1.63	1.74
1455.0	1.54	2.10	2.76	4.22	4.03	3.79	478.9	1.73	1.92	2.12
1630.0	1.94	2.46	3.11	5.17	4.89	4.64	531.1	1.82	2.10	2.37
1805.0	2.37	2.88	3.44	5.33	5.03	4.77	583.2	1.59	1.84	2.04
1980.0	3.11	3.44	3.95	4.89	4.53	4.32	635.3	1.33	1.50	1.65
2030.0	3.26	3.50	4.03	4.53	4.32	4.03	687.4	1.18	1.28	1.39
2155.0	3.71	3.64	3.79	4.32	4.03	3.71	739.5	1.20	1.22	1.28
2330.0	4.22	3.44	3.32	3.64	3.21	2.88	791.6	1.30	1.27	1.28
2505.0	4.77	3.38	2.80	2.80	2.30	2.06	843.7	1.40	1.36	1.34
2680.0	4.32	2.88	2.14	1.88	1.75	1.74	895.8	1.51	1.44	1.40
2855.0	3.06	2.84	3.01	1.92	2.14	2.30	947.9	1.60	1.52	1.46
3030.0	3.79	4.53	5.85	2.88	3.11	3.38	1000.0	1.65	1.55	1.48

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