

Frequency Mixer

LMX-ED6846/2

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
1.0	31.0	7.37	6.67	6.37	31.0	58.8	58.4	57.8	59.1	56.9	55.4
5.0	35.0	6.51	5.91	5.61	35.0	57.8	57.4	56.9	58.5	56.6	55.2
10.0	40.0	6.46	5.86	5.56	40.0	56.5	56.3	56.0	58.1	56.2	54.7
79.0	109.0	6.54	5.94	5.64	109.0	48.5	48.4	48.4	52.9	50.8	49.5
158.0	188.0	6.49	5.89	5.69	188.0	44.4	44.6	44.6	49.3	47.9	47.0
236.9	266.9	6.45	5.85	5.65	266.9	42.1	42.0	41.8	47.1	46.5	45.3
315.9	345.9	6.36	5.96	5.76	345.9	40.3	40.1	39.8	44.7	44.0	43.3
394.8	424.8	6.49	5.99	5.79	424.8	38.8	38.8	38.6	40.9	41.1	41.2
400.0	430.0	6.44	5.94	5.84	430.0	38.7	38.7	38.5	40.6	40.8	41.0
473.8	503.8	6.50	6.00	5.90	503.8	37.3	37.2	37.3	37.8	37.5	37.9
500.0	530.0	6.55	6.15	5.85	530.0	36.9	36.8	36.8	36.8	36.8	37.1
552.7	582.7	6.78	6.38	5.98	582.7	36.2	36.1	36.1	35.2	35.3	36.2
631.6	661.6	6.68	6.28	5.98	661.6	36.0	35.9	35.7	33.8	33.7	34.2
710.6	740.6	6.86	6.36	6.06	740.6	36.6	36.1	36.0	32.0	33.2	33.5
789.5	819.5	6.99	6.39	6.09	819.5	36.7	36.4	36.0	29.8	32.0	33.6
868.5	898.5	7.41	6.71	6.21	898.5	36.1	36.1	35.8	27.8	29.7	31.7
947.4	977.4	7.75	7.05	6.55	977.4	36.0	36.1	36.0	26.4	27.8	29.7
970.0	1000.0	7.71	7.11	6.61	1000.0	35.9	36.1	36.0	26.1	27.4	29.4
1000.0	1030.0	7.76	7.16	6.66	1030.0	36.1	36.3	36.2	25.8	27.1	29.0
1026.3	1056.3	7.93	7.33	6.83	1056.3	36.5	36.8	36.8	25.7	26.9	28.5

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Typical Performance Data

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
31.0	1.66	1.61	1.60	1.04	1.59	2.37	10.0	3.21	2.52	1.99
35.0	1.28	1.16	1.12	1.04	1.57	2.37	30.0	3.11	2.49	1.96
40.0	1.24	1.11	1.05	1.02	1.58	2.37	49.6	3.01	2.43	1.94
109.0	1.19	1.05	1.04	1.04	1.54	2.32	99.1	2.92	2.37	1.92
188.0	1.22	1.08	1.02	1.04	1.54	2.32	148.6	2.80	2.30	1.88
266.9	1.18	1.05	1.05	1.04	1.57	2.35	198.1	2.72	2.27	1.87
345.9	1.16	1.04	1.06	1.08	1.59	2.40	247.6	2.68	2.25	1.85
424.8	1.17	1.07	1.10	1.16	1.64	2.40	297.1	2.68	2.23	1.84
430.0	1.16	1.07	1.10	1.16	1.68	2.43	346.6	2.65	2.18	1.82
503.8	1.13	1.06	1.12	1.23	1.70	2.49	396.1	2.68	2.20	1.82
530.0	1.14	1.05	1.09	1.26	1.71	2.40	400.0	2.61	2.18	1.80
582.7	1.18	1.09	1.10	1.28	1.76	2.49	445.6	2.61	2.16	1.78
661.6	1.18	1.15	1.17	1.36	1.78	2.43	495.1	2.65	2.16	1.77
740.6	1.19	1.16	1.19	1.42	1.82	2.43	544.5	2.61	2.14	1.76
819.5	1.22	1.20	1.25	1.48	1.88	2.49	594.0	2.61	2.12	1.75
898.5	1.26	1.20	1.24	1.58	2.04	2.68	600.0	2.58	2.12	1.74
977.4	1.37	1.32	1.33	1.70	2.18	2.84	643.5	2.52	2.06	1.70
1000.0	1.39	1.34	1.35	1.68	2.14	2.88	693.0	2.43	1.99	1.64
1030.0	1.40	1.35	1.36	1.73	2.23	2.96	742.5	2.35	1.94	1.59
1056.3	1.43	1.38	1.38	1.81	2.27	3.06	792.0	2.30	1.88	1.55