

Frequency Mixer

MBR-EE7756/9

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
1831.3	1861.3	8.80	8.40	7.80	1861.3	38.8	53.2	41.2	9.8	10.7	10.9
1941.7	1971.7	8.31	7.81	7.31	1971.7	35.8	38.4	37.7	10.5	10.0	9.5
2000.0	2030.0	7.86	7.36	6.86	2030.0	34.2	34.8	34.4	10.6	10.2	9.8
2162.5	2192.5	6.50	6.20	6.10	2192.5	34.2	37.1	34.7	12.1	11.3	10.5
2250.0	2280.0	6.08	5.88	5.68	2280.0	42.9	37.2	31.6	14.1	11.9	10.4
2272.9	2302.9	5.89	5.79	5.69	2302.9	47.9	36.9	30.7	14.3	11.9	10.3
2493.8	2523.8	5.41	5.41	5.51	2523.8	50.0	34.1	28.7	15.1	12.4	10.4
2500.0	2530.0	5.44	5.34	5.44	2530.0	47.2	34.3	28.7	15.6	12.5	10.4
2604.2	2634.2	5.46	5.36	5.36	2634.2	45.8	33.9	28.5	15.1	12.0	10.2
2750.0	2780.0	5.78	5.48	5.48	2780.0	38.3	38.3	30.0	15.5	13.3	11.4
2825.0	2855.0	5.86	5.46	5.36	2855.0	35.2	40.8	31.4	16.3	13.9	12.4
2935.4	2965.4	5.63	5.33	5.33	2965.4	36.8	38.1	29.5	17.6	15.1	13.5
3000.0	3030.0	5.77	5.27	5.27	3030.0	34.0	40.2	29.7	17.8	15.5	14.1
3156.3	3186.3	5.68	5.48	5.38	3186.3	36.9	38.1	30.2	19.5	18.2	17.4
3250.0	3280.0	5.46	5.46	5.46	3280.0	48.1	32.6	27.2	20.0	19.3	18.5
3266.7	3296.7	5.52	5.42	5.42	3296.7	46.5	32.6	27.6	20.1	19.6	19.1
3487.5	3517.5	6.34	6.04	5.84	3517.5	36.7	32.8	29.6	22.4	23.1	23.5
3500.0	3530.0	6.28	5.98	5.88	3530.0	36.3	32.0	28.7	22.8	23.4	23.6
3597.9	3627.9	6.33	6.23	6.13	3627.9	34.3	30.0	27.1	25.3	26.2	26.9
3750.0	3780.0	6.45	6.25	6.15	3780.0	29.9	27.0	25.1	28.0	29.0	29.9
3818.8	3848.8	6.62	6.22	6.12	3848.8	29.4	26.8	25.2	28.1	29.2	29.9
4000.0	4030.0	6.40	6.10	6.00	4030.0	26.4	24.8	23.5	25.0	25.7	26.3
4039.6	4069.6	6.40	6.10	5.90	4069.6	26.1	24.8	23.6	24.1	25.0	25.7
4150.0	4180.0	6.43	6.03	5.83	4180.0	25.6	24.6	23.1	21.4	22.3	23.1

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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)		
	+10	+13	+16	+10	+13	+16		+10	+13	+16
1861.3	7.28	5.85	4.64	1.36	1.70	2.20	0.1	1.25	1.08	1.11
1971.7	4.77	4.12	3.71	1.27	1.64	2.25	0.3	1.24	1.06	1.09
2030.0	3.86	3.50	3.26	1.21	1.41	1.87	0.5	1.26	1.07	1.08
2192.5	2.68	2.58	2.49	1.30	1.20	1.60	1.0	1.28	1.08	1.07
2280.0	2.23	2.20	2.23	1.49	1.14	1.54	3.0	1.26	1.07	1.08
2302.9	2.12	2.12	2.16	1.51	1.15	1.58	5.0	1.25	1.07	1.09
2523.8	1.57	1.69	1.84	1.85	1.13	1.36	10.0	1.24	1.06	1.09
2530.0	1.54	1.67	1.81	1.91	1.13	1.35	25.0	1.24	1.06	1.09
2634.2	1.32	1.45	1.57	1.94	1.13	1.31	50.0	1.25	1.07	1.07
2780.0	1.17	1.27	1.39	1.91	1.13	1.51	75.0	1.28	1.10	1.05
2855.0	1.08	1.15	1.28	1.89	1.11	1.59	100.0	1.32	1.13	1.02
2965.4	1.13	1.18	1.39	1.91	1.21	1.84	125.0	1.35	1.16	1.02
3030.0	1.30	1.27	1.39	1.78	1.29	1.92	150.0	1.40	1.21	1.06
3186.3	1.65	1.70	1.78	1.74	1.59	2.04	200.0	1.52	1.32	1.17
3280.0	1.77	1.85	1.97	1.57	1.64	2.30	225.1	1.59	1.38	1.23
3296.7	1.75	1.84	1.94	1.61	1.70	2.35	250.0	1.68	1.47	1.30
3517.5	2.55	2.35	2.23	1.51	2.40	3.64	300.1	1.87	1.64	1.45
3530.0	2.49	2.32	2.20	1.52	2.30	3.38	375.1	2.20	1.94	1.73
3627.9	2.52	2.37	2.27	1.62	2.40	3.32	450.1	2.55	2.27	2.01
3780.0	2.52	2.35	2.25	1.80	2.55	3.26	500.0	2.80	2.46	2.20
3848.8	2.43	2.20	2.10	2.37	3.50	4.64	525.1	2.92	2.61	2.30
4030.0	1.99	1.78	1.65	3.11	3.95	4.64	600.0	3.38	2.96	2.65
4069.6	1.84	1.68	1.54	2.96	3.38	3.86	675.1	3.71	3.32	2.96
4180.0	1.47	1.35	1.27	2.84	2.96	3.26	750.1	3.86	3.50	3.16