

Frequency Mixer

MBA-EE7756/10

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)		
		+14	+17	+20		+14	+17	+20	+14	+17	+20
700.0	730.0	9.05	8.45	8.15	730.0	24.7	25.5	25.1	17.7	17.6	17.9
800.0	830.0	7.68	7.28	7.08	830.0	23.8	23.7	23.0	17.1	16.9	16.9
900.0	930.0	7.22	6.62	6.42	930.0	22.8	22.1	21.6	16.8	16.4	16.1
936.7	966.7	7.36	6.66	6.26	966.7	23.9	23.2	22.4	17.4	17.3	17.0
1000.0	1030.0	7.47	6.57	6.37	1030.0	23.5	22.8	21.9	16.6	16.8	16.7
1100.0	1130.0	7.29	6.89	6.69	1130.0	25.0	24.1	23.2	15.0	16.3	17.1
1180.0	1210.0	7.00	6.70	6.60	1210.0	24.8	24.0	23.0	13.5	15.4	17.1
1250.0	1280.0	6.93	6.73	6.63	1280.0	25.0	23.7	22.9	12.3	14.7	16.5
1400.0	1430.0	6.83	6.73	6.73	1430.0	25.6	24.6	24.2	10.4	12.6	14.0
1423.3	1453.3	6.93	6.83	6.83	1453.3	25.9	25.3	24.7	10.5	12.4	13.8
1500.0	1530.0	7.04	6.84	6.84	1530.0	25.2	26.0	25.7	10.0	11.5	12.5
1600.0	1630.0	7.01	7.01	7.11	1630.0	27.9	28.3	28.4	9.9	11.3	12.0
1666.7	1696.7	6.87	6.77	6.87	1696.7	26.3	27.8	28.2	9.8	10.8	11.1
1800.0	1830.0	6.62	6.52	6.62	1830.0	27.1	29.7	31.0	9.6	9.9	9.8
1910.0	1940.0	6.65	6.45	6.45	1940.0	27.4	29.6	30.7	9.9	9.6	9.3
2000.0	2030.0	6.58	6.48	6.48	2030.0	31.6	33.0	33.6	10.9	10.5	10.0
2100.0	2130.0	6.62	6.52	6.62	2130.0	40.2	41.2	41.1	12.1	11.4	10.9
2153.3	2183.3	7.07	6.97	6.97	2183.3	40.1	41.0	40.7	11.7	10.9	10.3
2250.0	2280.0	7.68	7.48	7.48	2280.0	60.8	59.1	52.0	12.5	11.6	11.0
2300.0	2330.0	7.71	7.51	7.51	2330.0	42.9	49.0	56.7	13.0	11.8	11.3
2396.7	2426.7	7.68	7.58	7.58	2426.7	35.9	39.5	42.9	13.9	12.4	11.8
2470.0	2500.0	7.98	7.78	7.88	2500.0	30.3	33.5	36.2	14.3	12.9	12.2
2500.0	2530.0	8.24	8.04	8.04	2530.0	28.8	31.9	34.9	14.1	12.7	12.0
2640.0	2670.0	8.40	8.30	8.30	2670.0	27.9	30.8	33.5	13.7	12.1	11.4
2883.3	2913.3	7.45	7.15	7.05	2913.3	29.6	34.2	36.1	14.1	13.2	12.6
3126.7	3156.7	6.67	6.57	6.57	3156.7	38.4	34.2	30.4	14.0	14.3	14.6
3370.0	3400.0	5.91	5.81	5.81	3400.0	29.0	23.9	21.3	13.9	15.2	16.5
3613.3	3643.3	7.17	7.07	7.27	3643.3	23.9	21.4	20.2	10.9	11.2	11.7
3856.7	3886.7	6.81	6.71	6.71	3886.7	43.6	36.5	32.0	13.4	14.1	14.8
4100.0	4130.0	6.50	6.50	6.50	4130.0	29.7	30.9	32.3	14.7	16.3	17.8

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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)		
	+14	+17	+20	+14	+17	+20		+14	+17	+20
730.0	4.22	3.71	3.44	4.03	2.84	2.96	2.0	2.61	2.96	3.26
830.0	3.71	3.38	3.16	2.68	2.18	2.68	7.0	2.65	3.01	3.21
930.0	3.86	3.50	3.32	2.46	2.46	3.01	10.0	2.65	3.01	3.26
966.7	4.32	3.79	3.44	2.40	2.32	2.80	20.0	2.61	2.96	3.21
1030.0	4.64	3.95	3.64	2.43	2.52	3.26	30.0	2.55	2.96	3.16
1130.0	4.53	4.22	4.03	2.40	2.35	2.88	50.0	2.55	2.88	3.11
1210.0	4.32	4.03	3.86	2.06	2.18	2.76	52.7	2.55	2.88	3.11
1280.0	4.32	4.12	3.95	1.81	2.08	2.58	70.0	2.55	2.88	3.06
1430.0	3.38	3.32	3.26	1.66	2.14	2.88	100.0	2.40	2.76	2.92
1453.3	3.21	3.21	3.16	1.47	1.81	2.40	105.4	2.40	2.76	2.96
1530.0	2.80	2.80	2.80	1.51	1.87	2.40	150.0	2.16	2.43	2.65
1630.0	2.16	2.14	2.14	1.36	1.59	1.94	158.0	2.16	2.40	2.61
1696.7	2.01	1.91	1.88	1.38	1.70	2.14	200.0	1.94	2.16	2.30
1830.0	2.12	2.04	1.97	1.30	1.68	2.14	210.6	1.92	2.16	2.30
1940.0	2.16	2.06	1.99	1.41	1.97	2.61	263.2	1.70	1.87	1.99
2030.0	2.18	2.03	1.91	1.43	2.03	2.76	300.0	1.59	1.73	1.81
2130.0	2.16	1.97	1.87	1.44	2.03	2.61	315.9	1.59	1.69	1.77
2183.3	2.40	2.30	2.18	1.60	2.23	2.96	350.0	1.54	1.60	1.66
2280.0	3.06	2.96	2.80	1.65	2.27	2.92	368.5	1.54	1.58	1.63
2330.0	2.96	2.88	2.76	1.60	2.14	2.68	400.0	1.59	1.57	1.59
2426.7	2.46	2.32	2.23	1.75	2.18	2.76	421.1	1.64	1.59	1.59
2500.0	2.27	2.16	2.06	1.91	2.20	2.65	450.0	1.71	1.61	1.59
2530.0	2.27	2.16	2.08	2.04	2.25	2.68	473.7	1.80	1.68	1.62
2670.0	3.11	2.80	2.61	2.27	2.12	2.32	500.0	1.91	1.74	1.67
2913.3	3.32	2.92	2.68	2.49	1.60	1.37	526.4	1.99	1.80	1.71
3156.7	2.32	2.06	1.92	2.03	1.34	1.34	579.0	2.30	2.01	1.89
3400.0	1.77	1.58	1.44	1.44	1.41	1.74	631.6	2.52	2.27	2.10
3643.3	1.76	1.60	1.43	1.08	1.26	1.58	684.2	2.80	2.49	2.35
3886.7	2.35	2.18	2.01	1.38	1.71	2.27	736.9	3.01	2.80	2.68
4130.0	2.18	2.01	1.89	1.62	1.71	2.06	789.5	3.44	3.16	3.01