

Frequency Mixer

MBA-EE7756/29

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
1800.0	1830.0	8.29	7.95	7.95	1830.0	24.7	24.2	22.7	10.0	10.8	11.0
1900.0	1930.0	7.88	7.38	7.54	1930.0	24.0	23.7	22.5	9.7	10.3	10.2
2000.0	2030.0	7.48	6.98	7.15	2030.0	23.3	23.2	22.5	9.3	9.5	9.5
2035.0	2065.0	7.46	6.96	6.80	2065.0	23.3	23.3	22.8	9.3	9.7	9.7
2370.0	2400.0	5.69	5.69	6.02	2400.0	21.8	21.8	21.2	8.7	8.5	8.2
2705.0	2735.0	5.60	5.77	5.94	2735.0	24.0	22.7	22.0	9.3	8.7	8.2
3040.0	3070.0	5.35	5.18	5.35	3070.0	25.7	23.8	22.7	10.7	9.8	9.2
3375.0	3405.0	5.36	5.20	5.36	3405.0	23.7	22.3	21.5	12.2	11.2	10.3
3600.0	3630.0	5.37	5.37	5.53	3630.0	22.7	21.5	20.8	13.3	12.2	11.2
3700.0	3730.0	5.71	5.54	5.71	3730.0	22.2	21.3	20.5	13.8	12.8	11.5
3710.0	3740.0	5.55	5.55	5.89	3740.0	22.0	21.2	20.5	14.0	12.7	11.7
3750.0	3780.0	5.69	5.69	6.02	3780.0	21.8	20.8	20.3	14.0	12.7	11.7
3800.0	3830.0	5.68	5.68	6.01	3830.0	22.0	20.8	20.2	14.8	13.3	12.0
3900.0	3930.0	6.13	5.96	6.13	3930.0	21.3	20.5	19.8	15.3	13.8	12.5
3970.0	4000.0	6.18	6.01	6.35	4000.0	21.0	20.2	19.5	15.8	14.0	12.7
4000.0	4030.0	6.02	6.02	6.52	4030.0	20.8	20.0	19.3	16.3	14.3	12.8
4045.0	4075.0	6.02	6.02	6.52	4075.0	20.5	19.5	18.7	16.5	14.3	12.7
4100.0	4130.0	6.34	6.17	6.67	4130.0	20.3	19.5	18.8	17.5	15.2	13.5
4170.0	4200.0	6.32	6.32	6.82	4200.0	19.8	19.0	18.5	18.3	15.8	13.8
4200.0	4230.0	6.18	6.51	7.18	4230.0	19.7	19.0	18.3	19.0	16.3	14.3
4300.0	4330.0	6.38	6.38	7.04	4330.0	18.8	18.3	18.0	19.2	16.7	14.8
4380.0	4410.0	6.37	6.70	7.53	4410.0	18.3	17.8	17.5	18.8	16.7	14.7
4400.0	4430.0	6.54	6.71	7.38	4430.0	18.5	17.8	17.3	19.3	16.8	14.8
4500.0	4530.0	6.42	6.75	7.42	4530.0	18.2	17.7	17.2	19.7	17.2	15.2
4600.0	4630.0	6.44	6.77	7.44	4630.0	18.0	17.5	16.8	21.0	18.0	15.7
4700.0	4730.0	6.43	6.76	7.43	4730.0	18.0	17.3	17.0	22.7	18.8	16.5
4715.0	4745.0	6.43	6.76	7.76	4745.0	17.8	17.3	16.8	22.8	19.2	16.5
4770.0	4800.0	6.43	6.76	7.59	4800.0	17.7	17.0	16.5	23.7	19.3	16.5
4800.0	4830.0	6.59	6.59	7.26	4830.0	17.8	17.5	17.0	25.0	20.3	17.3
5050.0	5080.0	6.91	7.25	7.91	5080.0	17.8	17.2	16.7	34.3	23.2	19.0

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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
1830.0	4.42	3.57	2.86	2.51	3.01	3.47	10.0	1.05	1.15	1.54
1930.0	4.09	3.36	2.73	2.32	2.86	3.46	15.0	1.05	1.15	1.54
2030.0	3.57	3.01	2.61	2.20	2.80	3.46	20.0	1.06	1.15	1.54
2065.0	3.57	3.09	2.73	2.10	2.67	3.26	30.0	1.07	1.16	1.47
2400.0	2.13	2.04	2.04	1.76	2.36	2.94	50.0	1.10	1.17	1.48
2735.0	2.10	2.13	2.17	1.83	2.41	3.01	74.5	1.14	1.18	1.45
3070.0	1.55	1.65	1.76	2.13	2.73	3.36	80.0	1.15	1.19	1.44
3405.0	1.49	1.58	1.67	1.77	2.17	2.67	100.0	1.19	1.21	1.45
3630.0	1.81	1.83	1.90	1.88	2.28	2.80	139.0	1.28	1.27	1.48
3730.0	1.85	1.87	1.90	2.01	2.46	3.01	150.0	1.30	1.28	1.48
3740.0	1.85	1.85	1.90	2.01	2.46	2.94	200.0	1.41	1.36	1.51
3780.0	1.78	1.76	1.83	2.13	2.61	3.17	203.5	1.42	1.37	1.52
3830.0	1.81	1.81	1.85	2.17	2.61	3.09	250.0	1.54	1.45	1.56
3930.0	1.90	1.88	1.95	2.28	2.73	3.17	268.0	1.59	1.49	1.58
4000.0	1.92	1.92	2.01	2.41	2.80	3.17	275.0	1.61	1.50	1.59
4030.0	2.04	2.04	2.13	2.36	2.67	3.01	300.0	1.67	1.56	1.62
4075.0	2.10	2.10	2.17	2.41	2.67	2.93	325.0	1.74	1.62	1.67
4130.0	2.32	2.28	2.41	2.37	2.56	2.80	332.5	1.76	1.64	1.67
4200.0	2.36	2.32	2.46	2.41	2.56	2.80	350.0	1.81	1.65	1.69
4230.0	2.56	2.51	2.67	2.32	2.46	2.67	375.0	1.74	1.71	1.73
4330.0	2.73	2.67	2.86	2.24	2.37	2.61	397.0	1.78	1.78	1.76
4410.0	2.86	2.80	3.01	2.32	2.41	2.73	400.0	1.78	1.81	1.76
4430.0	3.01	2.86	3.01	2.28	2.36	2.61	461.5	1.92	1.92	1.88
4530.0	3.01	2.93	3.09	2.32	2.41	2.67	500.0	2.10	2.07	1.98
4630.0	2.86	2.73	2.80	2.28	2.41	2.67	526.0	2.17	2.10	2.01
4730.0	2.86	2.73	2.86	2.24	2.32	2.51	590.5	2.41	2.32	2.17
4745.0	2.86	2.73	2.80	2.24	2.32	2.51	600.0	2.46	2.37	2.20
4800.0	2.93	2.80	2.86	2.37	2.51	2.67	655.0	2.67	2.51	2.28
4830.0	3.01	2.93	3.01	2.24	2.28	2.41	719.5	2.86	2.73	2.46
5080.0	3.57	3.35	3.35	2.73	2.80	3.01	784.0	3.26	2.93	2.67