

Frequency Mixer

MBA-EE7756/15

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
1950.0	1980.0	7.84	7.34	6.84	1980.0	23.2	24.9	24.3	8.6	9.6	10.1
2150.0	2180.0	6.70	6.33	6.03	2180.0	20.7	22.5	22.9	7.6	8.4	8.5
2350.0	2380.0	5.98	5.77	5.65	2380.0	19.7	21.5	21.7	8.1	8.6	8.5
2550.0	2580.0	5.61	5.74	5.61	2580.0	24.0	23.0	21.9	10.4	9.8	9.1
2750.0	2780.0	5.24	5.20	4.90	2780.0	31.7	26.3	23.8	12.1	10.9	9.9
2950.0	2980.0	5.36	5.20	5.03	2980.0	27.9	25.8	23.8	13.5	11.5	10.4
3000.0	3030.0	5.36	5.20	5.03	3030.0	27.8	25.8	24.2	13.8	11.9	10.7
3050.0	3080.0	5.36	5.21	4.86	3080.0	27.3	25.4	23.6	13.9	11.9	10.6
3100.0	3130.0	5.20	5.18	4.87	3130.0	26.7	25.4	24.0	14.7	12.4	11.1
3150.0	3180.0	5.19	5.00	4.86	3180.0	26.0	24.8	23.3	15.0	12.6	11.2
3200.0	3230.0	5.17	4.98	4.84	3230.0	25.7	24.7	23.5	15.5	13.0	11.5
3250.0	3280.0	5.16	4.97	4.83	3280.0	25.2	24.4	23.0	15.9	13.1	11.7
3300.0	3330.0	5.15	4.96	4.82	3330.0	25.0	24.0	22.6	16.5	13.3	11.6
3350.0	3380.0	5.15	4.96	4.82	3380.0	24.7	23.7	22.3	16.9	13.6	11.9
3400.0	3430.0	5.27	5.09	4.77	3430.0	24.3	23.2	22.0	17.0	13.8	11.9
3450.0	3480.0	5.27	5.09	4.77	3480.0	23.8	23.0	21.8	17.1	14.1	12.2
3500.0	3530.0	5.22	5.05	4.88	3530.0	23.4	22.7	21.4	17.2	14.3	12.4
3550.0	3580.0	5.25	5.08	4.91	3580.0	23.1	22.5	21.3	17.7	14.8	12.7
3600.0	3630.0	5.38	5.05	4.88	3630.0	22.8	22.3	21.2	18.0	14.9	13.0
3650.0	3680.0	5.36	5.20	4.86	3680.0	22.5	22.1	21.1	19.0	15.4	13.4
3700.0	3730.0	5.52	5.20	5.02	3730.0	22.3	21.8	20.8	19.6	15.9	13.6
3750.0	3780.0	5.37	5.22	5.04	3780.0	22.0	21.5	20.6	20.3	16.2	13.9
3800.0	3830.0	5.55	5.39	5.05	3830.0	21.7	21.2	20.2	21.2	16.7	14.4
3950.0	3980.0	5.69	5.54	5.35	3980.0	20.5	20.2	19.7	23.8	19.7	16.7
3970.0	4000.0	5.86	5.72	5.36	4000.0	20.4	19.9	19.4	23.8	19.8	16.9
4000.0	4030.0	5.86	5.87	5.53	4030.0	20.2	19.7	19.1	23.8	20.2	17.4

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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
1980.0	5.03	4.32	3.71	2.20	2.27	2.76	0.1	1.66	1.31	1.11
2180.0	3.71	3.26	2.96	1.54	1.92	2.37	0.5	1.62	1.28	1.08
2380.0	2.80	2.65	2.52	1.21	1.82	2.32	1.0	1.64	1.30	1.09
2580.0	2.25	2.23	2.20	1.31	1.88	2.43	2.0	1.63	1.29	1.08
2780.0	1.89	1.91	1.94	1.44	1.64	1.96	10.0	1.59	1.27	1.07
2980.0	1.44	1.44	1.46	1.52	1.59	1.84	20.0	1.58	1.26	1.07
3030.0	1.39	1.39	1.42	1.51	1.54	1.81	30.0	1.58	1.26	1.08
3080.0	1.33	1.33	1.36	1.54	1.60	1.89	50.0	1.57	1.27	1.11
3130.0	1.28	1.26	1.29	1.59	1.59	1.88	70.0	1.61	1.30	1.15
3180.0	1.22	1.20	1.23	1.65	1.65	1.97	100.0	1.65	1.35	1.21
3230.0	1.18	1.13	1.17	1.67	1.65	1.92	111.9	1.70	1.39	1.25
3280.0	1.15	1.07	1.11	1.71	1.69	1.96	223.6	1.87	1.59	1.48
3330.0	1.18	1.02	1.08	1.80	1.77	2.04	300.0	2.06	1.80	1.67
3380.0	1.22	1.11	1.15	1.88	1.81	2.08	335.4	2.18	1.89	1.76
3430.0	1.26	1.17	1.21	1.99	1.94	2.25	400.0	2.35	2.04	1.88
3480.0	1.31	1.23	1.25	2.01	1.97	2.35	447.1	2.55	2.20	2.01
3530.0	1.38	1.29	1.29	2.16	2.06	2.37	500.0	2.72	2.37	2.14
3580.0	1.44	1.35	1.34	2.16	2.03	2.35	600.0	3.38	2.88	2.58
3630.0	1.49	1.40	1.39	2.25	2.04	2.30	670.7	3.86	3.32	2.96
3680.0	1.55	1.46	1.44	2.32	2.04	2.25	700.0	3.95	3.50	3.11
3730.0	1.59	1.50	1.48	2.27	2.01	2.18	782.4	4.42	3.86	3.50
3780.0	1.62	1.54	1.53	2.30	2.04	2.16	800.0	4.53	4.03	3.71
3830.0	1.68	1.60	1.59	2.30	2.03	2.14	894.2	4.89	4.42	4.03
3980.0	1.92	1.87	1.87	2.49	2.06	2.14	1000.0	5.33	4.89	4.53
4000.0	1.99	1.94	1.94	2.37	2.03	2.10	1005.9	5.17	4.77	4.42
4030.0	2.08	2.04	2.03	2.40	2.03	2.08	1117.7	5.66	5.17	4.64