

Frequency Mixer

MBA-42

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
3600.0	3630.0	6.06	5.73	5.86	3630.0	22.8	22.0	20.7	16.3	14.0	12.2
3650.0	3680.0	6.06	5.73	5.86	3680.0	22.5	22.0	20.8	16.7	14.5	12.7
3700.0	3730.0	6.03	5.70	6.00	3730.0	22.2	21.5	20.3	17.0	14.7	12.7
3750.0	3780.0	6.22	5.88	6.02	3780.0	22.0	21.5	20.3	17.8	15.3	13.0
3800.0	3830.0	6.21	5.87	6.17	3830.0	21.8	21.2	20.3	18.3	15.8	13.7
3900.0	3930.0	6.35	6.02	6.32	3930.0	21.0	20.8	19.8	20.0	17.2	14.7
4000.0	4030.0	6.51	6.18	6.48	4030.0	20.2	20.2	19.2	21.0	18.7	16.0
4050.0	4080.0	6.51	6.34	6.64	4080.0	20.0	19.8	18.7	21.2	19.0	16.5
4080.0	4110.0	6.69	6.35	6.65	4110.0	19.8	19.7	18.5	21.2	19.0	16.8
4100.0	4130.0	6.65	6.31	6.78	4130.0	19.8	19.7	18.3	21.3	19.3	17.0
4150.0	4180.0	6.64	6.47	6.77	4180.0	19.5	19.3	18.0	21.5	19.2	17.0
4200.0	4230.0	6.82	6.49	6.79	4230.0	19.7	19.2	17.8	22.2	19.7	17.3
4300.0	4330.0	6.81	6.48	6.78	4330.0	19.3	19.0	17.5	23.8	20.7	18.2
4400.0	4430.0	6.77	6.61	6.91	4430.0	19.3	19.0	17.3	26.7	22.7	19.5
4410.0	4440.0	6.77	6.61	6.91	4440.0	19.2	18.8	17.3	26.8	22.7	19.5
4500.0	4530.0	6.77	6.61	6.91	4530.0	19.0	18.5	17.3	29.5	24.7	21.2
4600.0	4630.0	6.93	6.60	7.07	4630.0	18.5	18.2	16.8	32.5	27.5	22.7
4700.0	4730.0	7.08	6.75	7.05	4730.0	18.3	18.2	17.0	31.7	33.2	25.3
4740.0	4770.0	7.09	6.92	7.06	4770.0	18.2	18.0	17.0	30.2	36.5	26.7
4800.0	4830.0	7.25	6.91	7.21	4830.0	18.3	18.3	17.0	27.8	47.5	29.2

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Frequency Mixer

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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
3630.0	1.67	1.65	1.71	1.61	1.69	2.01	209.1	1.45	1.35	1.38
3680.0	1.69	1.65	1.71	1.64	1.78	2.13	250.0	1.55	1.42	1.43
3730.0	1.69	1.67	1.71	1.64	1.78	2.13	308.6	1.67	1.54	1.54
3780.0	1.71	1.69	1.73	1.74	1.90	2.28	350.0	1.77	1.61	1.61
3830.0	1.71	1.71	1.73	1.78	1.92	2.41	408.2	1.92	1.74	1.71
3930.0	1.78	1.81	1.83	1.85	1.98	2.46	450.0	2.01	1.83	1.76
4030.0	1.92	1.95	1.98	1.92	1.98	2.32	500.0	2.17	1.95	1.90
4080.0	1.98	2.04	2.10	1.95	1.98	2.32	507.7	2.20	1.98	1.88
4110.0	2.07	2.13	2.20	1.98	1.92	2.24	550.0	2.32	2.10	2.01
4130.0	2.07	2.13	2.20	1.98	1.92	2.20	607.3	2.51	2.28	2.10
4180.0	2.20	2.24	2.32	1.92	1.87	2.17	650.0	2.56	2.36	2.20
4230.0	2.28	2.37	2.46	1.90	1.81	2.13	706.8	2.73	2.51	2.51
4330.0	2.46	2.51	2.61	1.83	1.73	1.95	750.0	2.86	2.67	2.46
4430.0	2.61	2.61	2.73	1.83	1.71	1.98	800.0	3.09	2.80	2.56
4440.0	2.61	2.61	2.73	1.81	1.73	2.10	806.4	3.09	2.80	2.56
4530.0	2.61	2.61	2.73	1.77	1.71	2.01	905.9	3.18	3.01	2.73
4630.0	2.61	2.56	2.73	1.78	1.74	2.13	1000.0	3.57	3.36	2.93
4730.0	2.56	2.46	2.67	1.92	1.90	2.28	1005.5	3.46	3.26	2.93
4770.0	2.61	2.51	2.73	1.95	1.92	2.28	1105.0	3.69	3.46	3.09
4830.0	2.61	2.46	2.67	2.01	1.98	2.28	1304.1	4.09	3.81	3.35

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