

Frequency Mixer

MBA-EE7756/18

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
3500.0	3530.0	6.63	6.13	5.96	3530.0	30.2	28.2	26.5	11.5	11.8	12.5
3800.0	3830.0	6.80	5.97	5.80	3830.0	35.2	29.5	27.3	9.7	10.5	11.7
4100.0	4130.0	7.23	5.90	6.06	4130.0	23.0	24.0	24.5	8.5	9.8	10.8
4400.0	4430.0	8.20	6.87	6.87	4430.0	16.5	19.3	19.8	8.7	9.8	10.7
4500.0	4530.0	8.53	7.20	7.03	4530.0	15.3	18.3	19.0	9.2	10.3	11.2
4600.0	4630.0	8.47	7.14	7.14	4630.0	14.8	17.3	18.5	10.0	11.0	12.0
4700.0	4730.0	8.28	7.11	6.94	4730.0	14.8	17.0	18.3	11.2	12.0	13.3
4800.0	4830.0	7.94	6.94	6.78	4830.0	15.0	16.8	18.2	12.3	13.0	14.5
4900.0	4930.0	7.80	6.97	6.63	4930.0	15.3	16.8	18.2	13.7	14.2	15.5
4970.0	5000.0	7.63	6.80	6.63	5000.0	15.7	17.0	18.2	14.7	15.0	16.3
5000.0	5030.0	7.50	6.83	6.66	5030.0	15.7	16.8	18.2	14.8	15.7	16.5
5100.0	5130.0	7.31	6.81	6.64	5130.0	16.2	17.0	18.2	16.2	16.2	17.2
5170.0	5200.0	7.30	6.80	6.63	5200.0	16.5	17.0	18.2	17.0	16.8	17.8
5200.0	5230.0	7.14	6.64	6.64	5230.0	16.7	17.2	18.0	17.3	17.0	17.8
5300.0	5330.0	7.13	6.63	6.63	5330.0	17.2	17.0	18.0	18.7	17.7	18.7
5400.0	5430.0	7.10	6.77	6.77	5430.0	17.3	17.3	18.2	20.0	18.8	19.5
5500.0	5530.0	7.11	6.78	6.95	5530.0	17.7	17.3	18.2	21.5	20.2	20.5
5600.0	5630.0	7.10	6.77	6.94	5630.0	17.8	17.5	18.2	23.0	21.3	21.8
5700.0	5730.0	7.26	6.93	7.09	5730.0	18.3	17.5	18.2	24.8	22.3	23.3
5800.0	5830.0	7.42	7.08	7.25	5830.0	18.5	17.3	18.2	26.5	23.7	24.7
5900.0	5930.0	7.42	7.08	7.42	5930.0	18.7	17.5	18.2	28.5	25.2	26.2
5970.0	6000.0	7.55	7.22	7.39	6000.0	18.8	17.7	18.3	29.7	26.2	26.8
6000.0	6030.0	7.55	7.22	7.39	6030.0	18.8	17.5	18.3	29.8	26.3	27.0
6200.0	6230.0	7.69	7.52	7.39	6230.0	19.0	17.8	18.3	32.2	28.5	28.2
6500.0	6530.0	8.14	7.81	7.69	6530.0	18.7	18.0	18.5	34.5	32.8	30.3
6800.0	6830.0	8.63	8.13	7.97	6830.0	18.5	19.0	19.0	47.0	41.0	33.5
7100.0	7130.0	8.39	8.05	8.30	7130.0	20.7	21.5	21.3	38.7	35.3	34.7

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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
3530.0	1.92	1.92	1.90	1.23	1.40	1.92	10.0	1.56	1.83	2.10
3830.0	1.27	1.26	1.27	1.48	1.10	1.54	20.0	1.56	1.85	2.10
4130.0	1.07	1.10	1.17	1.54	1.05	1.52	50.0	1.56	1.83	2.10
4430.0	1.15	1.19	1.29	1.69	1.02	1.43	70.0	1.56	1.83	2.10
4530.0	1.20	1.23	1.31	1.74	1.06	1.41	100.0	1.56	1.81	2.10
4630.0	1.17	1.20	1.29	1.78	1.13	1.44	200.0	1.56	1.81	2.10
4730.0	1.18	1.21	1.32	1.76	1.20	1.54	300.0	1.58	1.76	2.07
4830.0	1.23	1.24	1.35	1.73	1.28	1.65	400.0	1.59	1.74	2.01
4930.0	1.33	1.32	1.42	1.65	1.34	1.78	500.0	1.59	1.71	1.98
5000.0	1.39	1.39	1.47	1.56	1.39	1.85	591.7	1.64	1.71	1.92
5030.0	1.41	1.39	1.49	1.56	1.41	1.87	600.0	1.64	1.69	1.90
5130.0	1.44	1.40	1.50	1.46	1.46	1.98	700.0	1.67	1.67	1.88
5200.0	1.49	1.44	1.54	1.38	1.48	2.01	785.6	1.69	1.65	1.83
5230.0	1.50	1.45	1.55	1.36	1.50	2.04	800.0	1.69	1.64	1.78
5330.0	1.55	1.50	1.59	1.27	1.50	2.07	850.0	1.69	1.62	1.78
5430.0	1.58	1.54	1.65	1.20	1.48	2.07	900.0	1.69	1.61	1.74
5530.0	1.69	1.64	1.73	1.14	1.45	2.01	1000.0	1.69	1.56	1.62
5630.0	1.83	1.78	1.88	1.10	1.39	1.90	1100.0	1.71	1.55	1.59
5730.0	2.01	1.95	2.04	1.09	1.34	1.78	1173.3	1.73	1.54	1.51
5830.0	2.24	2.20	2.24	1.11	1.29	1.73	1200.0	1.74	1.52	1.45
5930.0	2.46	2.41	2.46	1.17	1.31	1.74	1367.2	1.73	1.51	1.34
6000.0	2.67	2.61	2.61	1.22	1.34	1.77	1561.1	1.67	1.50	1.30
6030.0	2.80	2.73	2.86	1.25	1.39	1.83	1755.0	1.65	1.50	1.31
6230.0	3.26	3.17	3.09	1.45	1.64	2.10	1948.9	1.67	1.52	1.31
6530.0	3.26	3.17	2.93	1.74	1.95	2.56	2142.8	1.78	1.61	1.34
6830.0	3.01	2.86	2.67	1.71	1.88	2.41	2336.7	1.81	1.64	1.36
7130.0	3.26	3.18	2.80	2.04	2.24	2.73	2530.6	1.64	1.51	1.24