

Frequency Mixer

MBR-EE7756/21

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
1200.0	1230.0	7.18	6.88	6.68	1230.0	29.2	33.4	38.3	18.0	16.0	15.0
1209.3	1239.3	6.97	6.67	6.47	1239.3	29.1	32.8	37.8	17.9	16.1	15.1
1250.0	1280.0	6.65	6.35	6.25	1280.0	28.1	31.8	35.6	18.0	16.3	15.2
1300.0	1330.0	6.15	5.95	5.85	1330.0	27.0	30.7	34.9	18.6	16.9	16.2
1350.0	1380.0	5.74	5.64	5.64	1380.0	25.9	29.4	33.0	18.7	17.5	16.9
1400.0	1430.0	5.49	5.49	5.49	1430.0	24.6	28.0	31.3	18.4	17.9	17.7
1434.0	1464.0	5.40	5.40	5.40	1464.0	24.1	27.2	30.6	18.2	18.3	18.4
1500.0	1530.0	5.59	5.39	5.39	1530.0	22.1	25.7	28.8	17.7	18.6	19.1
1550.0	1580.0	5.57	5.37	5.27	1580.0	22.5	26.2	29.2	17.3	18.8	20.1
1600.0	1630.0	5.51	5.41	5.31	1630.0	23.4	26.6	28.1	16.7	18.4	19.7
1620.0	1650.0	5.50	5.30	5.30	1650.0	23.4	26.2	27.7	16.5	18.1	19.4
1658.7	1688.7	5.46	5.36	5.36	1688.7	22.9	25.3	26.3	16.3	17.6	18.8
1700.0	1730.0	5.57	5.37	5.37	1730.0	22.5	24.6	25.2	15.9	17.1	18.0
1750.0	1780.0	5.54	5.34	5.34	1780.0	22.5	24.2	24.6	15.7	16.6	17.0
1800.0	1830.0	5.60	5.50	5.40	1830.0	22.4	23.6	23.8	15.3	15.9	16.2
1850.0	1880.0	5.80	5.60	5.60	1880.0	21.9	22.7	22.8	15.1	15.3	15.2
1883.3	1913.3	5.85	5.75	5.65	1913.3	21.7	22.1	22.0	15.0	15.0	14.8
1900.0	1930.0	5.90	5.80	5.80	1930.0	21.7	21.9	21.7	14.9	14.8	14.4
1970.0	2000.0	5.94	5.84	5.94	2000.0	22.0	21.6	21.1	15.1	14.5	14.0
2000.0	2030.0	5.92	5.92	5.92	2030.0	21.9	21.4	20.7	15.2	14.6	13.8
2108.0	2138.0	5.79	5.79	5.89	2138.0	22.0	21.0	20.1	14.6	13.8	13.0
2332.7	2362.7	6.87	7.27	7.57	2362.7	20.3	19.1	18.5	12.4	11.6	11.2
2557.3	2587.3	7.52	7.22	7.22	2587.3	21.6	21.1	20.5	9.7	9.4	9.4
2782.0	2812.0	6.29	6.19	6.19	2812.0	21.8	22.4	22.4	8.4	8.9	9.3
3006.7	3036.7	6.14	5.94	5.84	3036.7	23.8	23.5	22.7	6.9	7.5	8.0

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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)		
	+10	+13	+16	+10	+13	+16		+10	+13	+16
1230.0	3.50	3.21	3.01	3.38	3.57	4.03	0.1	1.46	1.59	1.70
1239.3	3.32	3.06	2.88	3.32	3.44	3.95	0.5	1.43	1.56	1.65
1280.0	3.06	2.84	2.68	3.06	3.32	3.86	1.0	1.41	1.54	1.65
1330.0	2.76	2.61	2.52	2.61	2.96	3.50	5.0	1.43	1.56	1.66
1380.0	2.40	2.32	2.23	2.18	2.68	3.38	10.0	1.44	1.57	1.68
1430.0	2.12	2.03	1.94	1.89	2.46	3.16	30.0	1.43	1.56	1.65
1464.0	1.91	1.82	1.76	1.73	2.30	2.92	50.0	1.43	1.56	1.66
1530.0	1.63	1.57	1.54	1.51	2.08	2.68	57.6	1.45	1.58	1.68
1580.0	1.46	1.47	1.49	1.35	1.88	2.46	70.0	1.44	1.58	1.68
1630.0	1.32	1.36	1.38	1.21	1.64	2.12	100.0	1.45	1.57	1.66
1650.0	1.30	1.33	1.36	1.19	1.56	2.03	115.1	1.48	1.60	1.70
1688.7	1.22	1.25	1.28	1.17	1.49	1.96	172.6	1.52	1.62	1.70
1730.0	1.14	1.19	1.23	1.21	1.41	1.77	200.0	1.55	1.66	1.74
1780.0	1.05	1.13	1.19	1.30	1.43	1.77	230.1	1.58	1.67	1.73
1830.0	1.06	1.11	1.17	1.41	1.51	1.84	287.6	1.61	1.68	1.73
1880.0	1.16	1.17	1.22	1.60	1.67	1.99	300.0	1.61	1.66	1.70
1913.3	1.21	1.22	1.27	1.75	1.81	2.16	345.1	1.63	1.65	1.68
1930.0	1.23	1.25	1.30	1.82	1.89	2.27	375.0	1.65	1.64	1.65
2000.0	1.31	1.33	1.38	1.89	2.03	2.46	400.0	1.68	1.65	1.65
2030.0	1.32	1.33	1.38	1.91	2.04	2.49	402.6	1.68	1.65	1.64
2138.0	1.37	1.30	1.29	1.87	2.12	2.58	460.1	1.84	1.77	1.73
2362.7	2.06	2.06	2.04	1.81	2.32	2.84	500.0	1.99	1.89	1.84
2587.3	3.44	3.26	2.84	1.81	2.46	3.11	517.6	2.10	1.99	1.92
2812.0	2.43	2.23	2.04	1.73	2.16	2.55	575.1	2.43	2.27	2.20
3036.7	1.92	1.70	1.59	1.89	2.12	2.37	600.0	2.58	2.43	2.35