

Frequency Mixer

MCA-ED12552/2

Typical Performance Data

RF (MHz)	LO (MHz)	CONVERSION LOSS (dB)			LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			LO (MHz)	RF (MHz)	IP3 Input (dBm)
		@LO (dBm)				@LO (dBm)			@LO (dBm)					@LO (dBm)
		+14	+17	+20		+14	+17	+20	+14	+17	+20			+17
1480.0	1205.0	8.86	8.09	7.57	1205.0	37.8	36.4	35.5	29.8	30.4	30.9	1205.0	1480.0	28.8
1512.5	1237.5	9.03	8.26	7.74	1237.5	37.4	36.1	35.0	29.2	29.7	30.2	1237.5	1512.5	38.1
1545.0	1270.0	8.93	8.24	7.77	1270.0	36.5	35.2	34.3	28.1	28.6	29.1	1270.0	1545.0	31.2
1577.5	1302.5	9.00	8.30	7.82	1302.5	35.5	34.3	33.4	27.0	27.5	28.0	1302.5	1577.5	25.5
1610.0	1335.0	8.75	8.11	7.68	1335.0	34.3	33.2	32.3	25.9	26.4	26.8	1335.0	1610.0	25.9
1642.5	1367.5	8.36	7.77	7.38	1367.5	32.4	31.4	30.5	24.6	24.9	25.2	1367.5	1642.5	27.0
1675.0	1400.0	8.37	7.83	7.47	1400.0	30.4	29.6	28.8	23.4	23.7	24.0	1400.0	1675.0	25.2
1707.5	1432.5	8.57	8.00	7.61	1432.5	29.1	28.4	27.7	23.5	23.8	23.9	1432.5	1707.5	27.9
1740.0	1465.0	8.70	8.12	7.71	1465.0	29.4	29.1	28.7	25.3	25.7	25.8	1465.0	1740.0	26.2
1772.5	1497.5	8.41	7.90	7.55	1497.5	31.2	31.2	31.1	26.8	27.0	27.1	1497.5	1772.5	28.6
1805.0	1530.0	8.03	7.60	7.32	1530.0	32.5	32.5	32.2	27.1	27.4	27.5	1530.0	1805.0	25.3
1837.5	1562.5	7.71	7.44	7.27	1562.5	33.1	33.0	32.6	27.5	28.9	30.6	1562.5	1837.5	29.4
1870.0	1595.0	7.88	7.61	7.45	1595.0	34.9	34.8	34.4	28.5	30.4	32.1	1595.0	1870.0	27.6
1902.5	1627.5	8.10	7.90	7.77	1627.5	38.2	38.7	38.8	27.9	29.4	30.8	1627.5	1902.5	28.3
1935.0	1660.0	7.90	7.74	7.65	1660.0	40.2	39.9	38.5	25.9	26.9	27.7	1660.0	1935.0	28.5
1967.5	1692.5	7.61	7.55	7.54	1692.5	37.9	37.6	36.5	24.8	25.7	26.5	1692.5	1967.5	29.2
2000.0	1725.0	7.52	7.49	7.51	1725.0	37.6	37.4	36.5	23.7	24.6	25.5	1725.0	2000.0	30.1
2030.0	1755.0	7.44	7.40	7.42	1755.0	39.1	38.9	38.0	23.5	24.5	25.4	1755.0	2030.0	30.1
2060.0	1785.0	7.54	7.52	7.56	1785.0	42.2	41.8	40.6	23.2	24.1	25.1	1785.0	2060.0	29.8
2090.0	1815.0	7.71	7.64	7.67	1815.0	45.7	45.2	43.7	23.2	24.1	24.9	1815.0	2090.0	28.0
2120.0	1845.0	7.55	7.49	7.51	1845.0	49.0	49.5	48.2	24.3	25.3	26.2	1845.0	2120.0	27.7
2150.0	1875.0	7.67	7.54	7.51	1875.0	49.9	51.4	50.5	25.2	26.3	27.3	1875.0	2150.0	29.6
2180.0	1905.0	7.63	7.42	7.34	1905.0	51.5	53.2	52.7	26.0	27.3	28.5	1905.0	2180.0	28.5
2210.0	1935.0	7.40	7.11	7.00	1935.0	54.5	56.0	56.5	27.1	28.8	30.4	1935.0	2210.0	27.2
2240.0	1965.0	7.62	7.20	7.02	1965.0	59.0	57.8	56.8	27.9	29.7	31.3	1965.0	2240.0	24.9
2270.0	1995.0	7.74	7.28	7.09	1995.0	68.5	65.4	62.4	28.5	30.0	31.2	1995.0	2270.0	23.0
2300.0	2025.0	8.07	7.45	7.16	2025.0	55.0	56.5	59.2	29.1	30.2	30.6	2025.0	2300.0	21.3
2330.0	2055.0	8.41	7.70	7.36	2055.0	51.4	52.3	54.2	29.7	30.2	30.2	2055.0	2330.0	20.5
2360.0	2085.0	8.60	7.77	7.35	2085.0	50.8	51.7	52.6	30.3	30.3	29.9	2085.0	2360.0	19.2
2390.0	2115.0	9.28	8.26	7.73	2115.0	50.5	51.0	51.0	31.3	30.9	30.3	2115.0	2390.0	18.4
2420.0	2145.0	9.32	8.24	7.69	2145.0	50.6	50.4	49.6	32.2	31.5	30.8	2145.0	2420.0	18.9
2450.0	2175.0	9.74	8.46	7.78	2175.0	49.7	49.2	48.0	33.1	32.0	31.2	2175.0	2450.0	19.6

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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
1205.0	2.84	2.57	2.36	1.41	1.41	1.42	4.0	1.60	1.65	1.75
1237.5	3.03	2.73	2.48	1.37	1.37	1.37	5.5	1.37	1.45	1.56
1270.0	2.80	2.53	2.31	1.38	1.38	1.39	7.0	1.26	1.36	1.46
1302.5	2.62	2.38	2.20	1.39	1.39	1.41	8.5	1.20	1.28	1.37
1335.0	2.76	2.48	2.27	1.38	1.38	1.38	10.0	1.14	1.20	1.26
1367.5	2.42	2.21	2.05	1.43	1.44	1.46	45.0	1.15	1.24	1.33
1400.0	2.48	2.26	2.10	1.44	1.46	1.46	80.0	1.28	1.46	1.64
1432.5	2.43	2.21	2.05	1.46	1.47	1.48	115.0	1.34	1.52	1.70
1465.0	2.24	2.07	1.95	1.52	1.54	1.58	150.0	1.36	1.48	1.60
1497.5	2.36	2.17	2.03	1.55	1.57	1.58	185.0	1.46	1.55	1.68
1530.0	2.12	1.99	1.88	1.68	1.70	1.72	220.0	1.53	1.60	1.73
1562.5	2.02	1.84	1.67	1.84	1.86	1.91	255.0	1.62	1.73	1.92
1595.0	1.84	1.63	1.48	1.95	1.98	1.98	290.0	1.69	1.80	1.99
1627.5	1.50	1.38	1.31	2.36	2.42	2.55	325.0	1.79	1.92	2.13
1660.0	1.47	1.37	1.32	2.77	2.85	2.87	360.0	1.78	1.86	1.99
1692.5	1.42	1.32	1.28	3.58	3.69	3.83	395.0	1.81	1.83	1.90
1725.0	1.36	1.28	1.26	5.31	5.55	6.15	430.0	1.85	1.84	1.90
1755.0	1.38	1.29	1.26	5.79	5.91	5.74	465.0	1.87	1.80	1.80
1785.0	1.35	1.25	1.23	8.16	8.32	8.44	500.0	2.00	1.86	1.79
1815.0	1.32	1.22	1.21	8.42	8.42	8.63	550.0	2.11	1.92	1.80
1845.0	1.38	1.23	1.18	6.92	6.80	6.79	600.0	2.43	2.16	1.98
1875.0	1.41	1.24	1.16	6.66	6.50	6.46	650.0	2.76	2.43	2.18
1905.0	1.43	1.24	1.15	5.40	5.27	5.17	700.0	3.02	2.62	2.34
1935.0	1.55	1.31	1.17	4.44	4.32	4.29	750.0	3.40	2.91	2.57
1965.0	1.63	1.37	1.20	4.02	3.92	3.85	800.0	3.76	3.19	2.79
1995.0	1.68	1.39	1.20	3.54	3.47	3.41	900.0	4.01	3.43	3.03
2025.0	1.75	1.43	1.23	3.12	3.06	3.04	1000.0	4.07	3.47	3.04
2055.0	1.83	1.48	1.25	2.89	2.85	2.81	1100.0	3.91	3.28	2.89
2085.0	1.87	1.51	1.26	2.66	2.63	2.60	1150.0	3.74	3.08	2.68
2115.0	1.90	1.53	1.27	2.43	2.40	2.40	1200.0	3.49	2.82	2.43
2145.0	1.98	1.57	1.30	2.30	2.28	2.26	1300.0	3.08	2.42	2.03
2175.0	2.02	1.59	1.31	2.18	2.16	2.13	1400.0	2.41	1.89	1.60