

Frequency Mixer

ADE-42MH

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+9dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+10	+13	+16			+10	+13	+16			+10	+13	+16
5.0	35.0	7.05	7.36	6.71	10.1	40.1	26.15	25.71	26.67	10.1	40.1	1.41	0.97	0.67
10.1	40.1	6.96	6.68	6.51	109.9	139.9	21.72	22.47	22.02	109.9	139.9	1.36	0.94	0.64
109.9	139.9	7.28	7.02	6.86	209.6	239.6	19.87	19.31	20.04	209.6	239.6	1.43	0.99	0.71
209.6	239.6	7.35	7.10	6.95	309.4	339.4	17.92	18.47	21.00	309.4	339.4	1.45	1.07	0.80
309.4	339.4	7.49	7.21	7.04	409.1	439.1	17.27	19.45	24.08	409.1	439.1	1.56	1.20	0.94
409.1	439.1	7.61	7.26	7.06	508.9	538.9	17.52	20.82	27.88	508.9	538.9	1.61	1.26	1.01
508.9	538.9	7.76	7.35	7.11	608.7	638.7	18.73	24.34	24.87	608.7	638.7	1.71	1.39	1.11
608.7	638.7	7.81	7.37	7.12	708.4	738.4	19.37	24.64	22.85	708.4	738.4	1.83	1.52	1.23
708.4	738.4	7.88	7.40	7.13	808.2	838.2	20.09	22.49	22.02	808.2	838.2	1.77	1.45	1.14
808.2	838.2	8.03	7.55	7.27	908.0	938.0	20.43	20.49	20.57	908.0	938.0	1.97	1.65	1.33
908.0	938.0	7.94	7.46	7.21	1027.7	1057.7	20.23	19.80	20.64	1027.7	1057.7	2.04	1.68	1.38
1027.7	1057.7	7.81	7.39	7.16	1127.4	1157.4	18.65	19.12	19.88	1127.4	1157.4	1.99	1.65	1.38
1127.4	1157.4	7.89	7.51	7.29	1247.1	1277.1	18.01	18.90	20.11	1247.1	1277.1	1.75	1.42	1.20
1247.1	1277.1	8.22	7.86	7.64	1346.9	1376.9	17.99	18.77	20.07	1346.9	1376.9	1.48	1.15	0.96
1466.6	1496.6	8.70	8.42	8.22	1466.6	1496.6	18.12	18.76	19.93	1466.6	1496.6	1.37	1.01	0.81
1566.4	1596.4	8.69	8.38	8.21	1566.4	1596.4	18.71	19.68	20.58	1566.4	1596.4	1.28	0.96	0.74
1686.1	1716.1	8.81	8.44	8.22	1686.1	1716.1	18.41	19.98	20.36	1686.1	1716.1	1.18	0.90	0.70
1785.9	1815.9	8.97	8.54	8.32	1785.9	1815.9	18.32	19.54	20.37	1785.9	1815.9	0.99	0.76	0.60
1905.6	1935.6	9.08	8.63	8.36	1905.6	1935.6	17.61	18.94	20.03	1905.6	1935.6	0.80	0.60	0.50
2005.3	2035.3	9.08	8.59	8.36	2005.3	2035.3	16.82	18.31	19.36	2005.3	2035.3	0.76	0.58	0.47
2125.1	2155.1	9.13	8.66	8.45	2125.1	2155.1	17.44	18.70	19.21	2125.1	2155.1	0.62	0.43	0.35
2224.8	2254.8	9.11	8.66	8.46	2224.8	2254.8	17.75	18.88	19.52	2224.8	2254.8	0.57	0.40	0.33
2344.5	2374.5	8.96	8.53	8.34	2344.5	2374.5	17.98	18.67	19.57	2344.5	2374.5	0.60	0.41	0.35
2444.3	2474.3	8.90	8.46	8.25	2444.3	2474.3	18.39	18.88	19.95	2444.3	2474.3	0.63	0.41	0.35
2564.0	2594.0	8.92	8.48	8.28	2564.0	2594.0	18.89	19.33	19.89	2564.0	2594.0	0.63	0.38	0.31
2663.8	2693.8	8.93	8.49	8.30	2663.8	2693.8	19.60	19.64	20.07	2663.8	2693.8	0.59	0.37	0.28
2783.5	2813.5	8.85	8.40	8.22	2783.5	2813.5	19.23	19.32	19.76	2783.5	2813.5	0.71	0.38	0.30
2883.2	2913.2	8.87	8.42	8.23	2883.2	2913.2	19.21	19.11	19.51	2883.2	2913.2	0.77	0.45	0.34
3003.0	3033.0	8.93	8.49	8.29	3003.0	3033.0	18.82	18.72	19.20	3003.0	3033.0	0.82	0.47	0.35
3102.7	3132.7	8.96	8.53	8.34	3102.7	3132.7	18.07	18.45	18.87	3102.7	3132.7	0.89	0.52	0.37
3222.4	3252.4	9.01	8.58	8.38	3222.4	3252.4	17.27	17.92	18.58	3222.4	3252.4	1.02	0.62	0.49
3322.2	3352.2	9.14	8.75	8.54	3322.2	3352.2	16.52	17.35	18.36	3322.2	3352.2	1.06	0.67	0.49
3441.9	3471.9	9.28	8.90	8.73	3441.9	3471.9	15.55	16.51	17.80	3441.9	3471.9	1.23	0.78	0.55
3541.7	3571.7	9.38	8.98	8.84	3541.7	3571.7	15.15	15.65	16.66	3541.7	3571.7	1.38	0.92	0.63
3661.4	3691.4	9.49	9.11	8.91	3661.4	3691.4	14.39	14.93	15.97	3661.4	3691.4	1.56	1.09	0.81
3761.1	3791.1	9.67	9.30	9.06	3761.1	3791.1	14.04	14.70	15.64	3761.1	3791.1	1.64	1.17	0.92
3880.9	3910.9	9.88	9.50	9.28	3880.9	3910.9	13.68	14.49	15.13	3880.9	3910.9	1.76	1.26	1.03
3980.6	4010.6	10.05	9.64	9.40	3980.6	4010.6	13.58	14.47	15.07	3980.6	4010.6	1.93	1.39	1.20
4100.3	4130.3	10.37	9.93	9.66	4100.3	4130.3	13.52	14.58	15.31	4100.3	4130.3	1.88	1.37	1.15
4200.1	4230.1	10.76	10.33	10.04	4200.1	4230.1	13.89	15.17	15.78	4200.1	4230.1	1.94	1.33	1.11



Frequency Mixer

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2100.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=4200.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+13			+13			+13
2090.0	10.1	9.70	10.0	20.1	6.94	3500.0	700.1	10.45
2029.4	70.7	9.72	90.7	100.8	6.95	3420.2	779.9	10.37
1968.8	131.3	9.62	171.4	181.5	6.96	3340.5	859.6	10.33
1908.3	191.8	9.62	252.1	262.2	6.95	3240.7	959.4	10.35
1847.7	252.4	9.51	332.8	342.9	6.93	3161.0	1039.1	10.45
1787.1	313.0	9.49	413.5	423.6	6.92	3061.3	1138.8	10.41
1726.5	373.6	9.46	494.2	504.3	6.91	2981.5	1218.6	10.44
1665.9	434.2	9.38	595.0	605.1	6.87	2881.8	1318.3	10.29
1605.3	494.8	9.36	675.7	685.8	6.84	2802.0	1398.1	10.10
1544.8	555.3	9.29	776.6	786.7	6.86	2702.3	1497.8	9.85
1484.2	615.9	9.25	857.3	867.4	6.86	2622.5	1577.6	9.64
1423.6	676.5	9.24	958.2	968.3	6.87	2522.8	1677.3	9.51
1383.2	716.9	9.26	1038.8	1048.9	6.87	2443.0	1757.1	9.41
1322.6	777.5	9.26	1139.7	1149.8	6.94	2343.3	1856.8	9.38
1282.2	817.9	9.27	1220.4	1230.5	7.03	2263.5	1936.6	9.29
1221.7	878.4	9.24	1321.3	1331.4	7.19	2163.8	2036.3	9.10
1181.3	918.8	9.22	1402.0	1412.1	7.36	2084.1	2116.0	9.00
1120.7	979.4	9.14	1502.8	1512.9	7.56	1984.3	2215.8	8.95
1080.3	1019.8	9.07	1583.5	1593.6	7.68	1904.6	2295.5	8.93
1019.7	1080.4	9.00	1684.4	1694.5	7.87	1804.9	2395.2	8.96
979.3	1120.8	8.93	1765.1	1775.2	7.94	1725.1	2475.0	9.00
918.7	1181.4	8.85	1866.0	1876.1	7.98	1625.4	2574.7	9.05
878.3	1221.8	8.79	1946.6	1956.7	7.98	1545.6	2654.5	9.09
817.8	1282.3	8.73	2047.5	2057.6	8.01	1445.9	2754.2	9.15
777.4	1322.7	8.66	2128.2	2138.3	8.08	1366.1	2834.0	9.18
716.8	1383.3	8.69	2229.1	2239.2	8.22	1266.4	2933.7	9.23
676.4	1423.7	8.59	2309.8	2319.9	8.38	1186.6	3013.5	9.26
615.8	1484.3	8.58	2410.6	2420.7	8.56	1086.9	3113.2	9.29
575.4	1524.7	8.57	2491.3	2501.4	8.74	1007.1	3193.0	9.29
514.9	1585.2	8.58	2592.2	2602.3	8.93	907.4	3292.7	9.25
474.5	1625.6	8.58	2672.9	2683.0	9.10	827.7	3372.4	9.23
413.9	1686.2	8.61	2773.8	2783.9	9.30	727.9	3472.2	9.22
373.5	1726.6	8.58	2854.5	2864.6	9.40	648.2	3551.9	9.18
312.9	1787.2	8.58	2955.3	2965.4	9.60	548.5	3651.6	9.17
272.5	1827.6	8.55	3036.0	3046.1	9.73	468.7	3731.4	9.17
211.9	1888.2	8.52	3136.9	3147.0	9.90	369.0	3831.1	9.25
171.6	1928.5	8.48	3217.6	3227.7	10.16	289.2	3910.9	9.41
111.0	1989.1	8.46	3318.4	3328.5	10.32	189.5	4010.6	9.66
70.6	2029.5	8.44	3399.1	3409.2	10.54	109.7	4090.4	9.92
10.0	2090.1	8.43	3500.0	3510.1	10.68	10.0	4190.1	10.21



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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+10	+13	+16	+10	+13	+16
5.0	45.30	49.90	54.70	30.80	34.20	37.50
10.1	45.55	49.31	52.95	32.97	36.56	39.91
110.3	45.54	45.14	44.54	33.43	36.43	38.56
210.6	39.51	38.87	38.47	33.35	35.27	35.57
310.8	36.06	35.60	35.35	33.47	33.80	32.98
411.0	33.68	33.34	33.21	33.50	32.44	31.20
511.3	32.17	31.99	31.98	33.00	31.11	29.71
611.5	31.04	30.99	31.05	32.23	29.91	28.47
711.8	30.17	30.27	30.47	31.35	28.86	27.38
812.0	29.65	29.98	30.33	30.49	27.97	26.51
912.2	29.61	30.15	30.73	29.05	26.81	25.48
1012.5	29.71	30.54	31.29	27.85	25.93	24.73
1112.7	29.86	30.94	31.87	26.60	24.95	23.87
1233.0	30.15	31.45	32.65	25.67	24.20	23.20
1453.5	31.29	33.42	35.74	24.66	23.40	22.44
1553.7	31.74	34.28	37.51	24.50	23.28	22.35
1674.0	32.36	35.19	39.07	24.18	23.04	22.12
1774.3	32.77	35.96	40.60	24.01	22.90	21.98
1894.6	33.13	36.61	41.92	23.69	22.85	22.01
1994.8	33.08	36.75	42.31	23.24	22.71	22.03
2115.1	32.61	36.43	42.01	22.40	22.26	21.83
2215.3	32.16	35.89	41.40	21.73	21.86	21.68
2335.6	31.35	34.79	39.56	21.02	21.42	21.50
2435.8	30.92	33.96	37.77	20.53	20.98	21.22
2556.1	30.28	32.74	35.46	20.26	20.76	21.12
2656.4	29.70	31.56	33.26	20.25	20.76	21.20
2776.6	29.12	30.35	31.18	20.26	20.78	21.23
2876.9	28.68	29.38	29.69	20.36	20.87	21.31
2997.2	28.24	28.42	28.23	20.44	20.97	21.43
3097.4	27.89	27.68	27.28	20.54	21.06	21.50
3217.7	27.24	26.75	26.22	20.68	21.20	21.61
3317.9	26.70	26.03	25.49	20.85	21.42	21.86
3438.2	26.08	25.39	24.88	21.03	21.68	22.16
3538.4	25.51	24.93	24.62	21.03	21.68	22.17
3658.7	25.08	24.61	24.48	21.21	21.83	22.28
3759.0	24.86	24.53	24.41	21.31	21.89	22.31
3879.2	24.68	24.58	24.62	21.70	22.24	22.59
3979.5	24.51	24.58	24.72	22.18	22.67	23.01
4099.8	24.00	24.29	24.48	22.81	23.26	23.57
4200.0	23.70	24.15	24.37	23.51	23.92	24.22

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+10	+13	+16
10.1	40.1	22.62	22.98	22.88
110.1	140.1	22.73	22.64	22.72
210.1	240.1	22.99	22.97	23.11
310.1	340.1	23.73	23.86	24.20
410.1	440.1	24.86	25.15	25.64
510.1	540.1	26.52	26.97	27.59
610.1	640.1	28.64	29.15	29.69
710.1	740.1	31.37	31.32	31.29
810.1	840.1	33.88	32.81	31.92
910.1	940.1	34.72	32.47	31.02
1010.1	1040.1	33.00	31.27	29.77
1110.1	1140.1	30.63	29.69	28.49
1210.1	1240.1	29.02	28.47	27.40
1310.1	1340.1	27.65	27.10	26.38
1430.1	1460.1	26.51	26.11	25.38
1530.1	1560.1	25.54	25.21	24.64
1650.1	1680.1	24.75	24.49	24.07
1750.1	1780.1	24.27	24.20	23.89
1870.1	1900.1	23.66	23.70	23.51
1970.1	2000.1	23.26	23.37	23.26
2090.1	2120.1	22.76	23.01	23.06
2190.0	2220.0	22.32	22.61	22.78
2310.0	2340.0	22.21	22.53	22.71
2410.0	2440.0	21.95	22.36	22.57
2530.0	2560.0	21.86	22.37	22.70
2630.0	2660.0	21.86	22.39	22.76
2750.0	2780.0	22.01	22.48	22.96
2850.0	2880.0	22.27	22.69	23.15
2970.0	3000.0	22.64	23.06	23.42
3070.0	3100.0	22.89	23.36	23.73
3190.0	3220.0	23.20	23.71	24.12
3290.0	3320.0	23.57	24.11	24.55
3410.0	3440.0	23.62	24.02	24.48
3510.0	3540.0	23.82	24.13	24.51
3630.0	3660.0	24.26	24.29	24.39
3730.0	3760.0	24.76	24.54	24.32
3850.0	3880.0	25.73	25.21	24.88
3950.0	3980.0	26.80	25.94	25.36
4070.0	4100.0	27.80	26.68	25.85
4170.0	4200.0	28.09	27.11	26.33

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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+10	+13	+16
5.0	35.0	1.28	1.35	1.42
10.1	40.1	1.11	1.20	1.27
110.1	140.1	1.07	1.16	1.24
210.1	240.1	1.05	1.12	1.18
310.1	340.1	1.05	1.08	1.12
410.1	440.1	1.12	1.09	1.11
510.1	540.1	1.21	1.16	1.15
610.1	640.1	1.32	1.27	1.25
710.1	740.1	1.47	1.41	1.37
810.1	840.1	1.64	1.56	1.51
910.1	940.1	1.80	1.71	1.66
1010.1	1040.1	1.94	1.86	1.80
1110.1	1140.1	2.09	2.00	1.93
1210.1	1240.1	2.25	2.15	2.08
1310.1	1340.1	2.40	2.31	2.23
1430.1	1460.1	2.57	2.48	2.42
1530.1	1560.1	2.67	2.58	2.51
1650.1	1680.1	2.69	2.60	2.53
1750.1	1780.1	2.73	2.63	2.55
1870.1	1900.1	2.81	2.69	2.61
1970.1	2000.1	2.82	2.70	2.61
2090.1	2120.1	2.75	2.62	2.54
2190.0	2220.0	2.72	2.58	2.49
2310.0	2340.0	2.71	2.56	2.45
2410.0	2440.0	2.64	2.48	2.37
2530.0	2560.0	2.52	2.36	2.24
2630.0	2660.0	2.49	2.32	2.19
2750.0	2780.0	2.48	2.30	2.16
2850.0	2880.0	2.42	2.24	2.11
2970.0	3000.0	2.34	2.16	2.04
3070.0	3100.0	2.33	2.14	2.02
3190.0	3220.0	2.30	2.12	1.99
3290.0	3320.0	2.22	2.06	1.94
3410.0	3440.0	2.14	2.01	1.90
3510.0	3540.0	2.12	1.99	1.88
3630.0	3660.0	2.04	1.94	1.85
3730.0	3760.0	1.90	1.84	1.80
3850.0	3880.0	1.76	1.74	1.73
3950.0	3980.0	1.67	1.68	1.69
4070.0	4100.0	1.56	1.60	1.64
4170.0	4200.0	1.52	1.59	1.64

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+10	+13	+16
5.0	1.63	2.37	3.26
10.1	1.71	2.42	3.31
110.3	1.64	2.29	3.12
210.6	1.63	2.26	3.07
310.8	1.65	2.27	3.05
411.0	1.66	2.26	3.00
511.3	1.64	2.21	2.91
611.5	1.65	2.18	2.84
711.8	1.65	2.15	2.77
812.0	1.64	2.11	2.69
912.2	1.62	2.07	2.64
1012.5	1.60	2.03	2.57
1112.7	1.61	1.99	2.49
1233.0	1.64	1.94	2.39
1333.2	1.68	1.92	2.32
1453.5	1.72	1.87	2.21
1553.7	1.75	1.84	2.14
1674.0	1.77	1.79	2.04
1774.3	1.79	1.74	1.95
1894.6	1.79	1.69	1.86
1994.8	1.79	1.63	1.76
2115.1	1.77	1.54	1.64
2215.3	1.73	1.47	1.54
2335.6	1.69	1.36	1.41
2435.8	1.65	1.29	1.31
2556.1	1.61	1.20	1.21
2656.4	1.57	1.15	1.16
2776.6	1.55	1.14	1.17
2876.9	1.54	1.19	1.25
2997.2	1.53	1.28	1.37
3097.4	1.53	1.36	1.48
3217.7	1.51	1.45	1.61
3317.9	1.53	1.54	1.72
3438.2	1.56	1.65	1.85
3538.4	1.63	1.76	1.97
3658.7	1.71	1.90	2.12
3759.0	1.81	2.04	2.26
3879.2	1.92	2.18	2.41
3979.5	2.02	2.31	2.55
4099.8	2.13	2.43	2.67
4200.0	2.24	2.55	2.79

IF (OUT) (MHz)	IF VSWR @LO=4200MHz (:1)		
	@LO (dBm)		
	+10	+13	+16
5.0	1.33	1.50	1.61
10.1	1.53	1.39	1.31
90.3	1.59	1.46	1.38
170.6	1.61	1.48	1.40
250.8	1.58	1.46	1.39
331.0	1.56	1.44	1.37
431.3	1.57	1.46	1.40
511.5	1.56	1.46	1.41
611.8	1.55	1.47	1.44
692.1	1.51	1.45	1.45
792.3	1.49	1.44	1.45
872.6	1.46	1.42	1.44
972.9	1.45	1.43	1.45
1053.1	1.47	1.47	1.51
1153.4	1.46	1.48	1.54
1233.6	1.45	1.50	1.58
1333.9	1.46	1.53	1.62
1414.1	1.46	1.53	1.62
1514.4	1.49	1.56	1.65
1594.6	1.54	1.62	1.71
1694.9	1.59	1.67	1.76
1775.2	1.58	1.67	1.76
1875.4	1.58	1.66	1.75
1955.7	1.52	1.59	1.67
2056.0	1.52	1.58	1.64
2136.2	1.60	1.65	1.71
2236.5	1.61	1.66	1.73
2316.7	1.61	1.67	1.74
2417.0	1.59	1.66	1.73
2497.2	1.59	1.65	1.70
2597.5	1.66	1.71	1.77
2677.7	1.88	1.94	1.99
2778.0	2.03	2.08	2.13
2858.3	2.10	2.16	2.22
2958.5	2.27	2.32	2.38
3038.8	2.37	2.42	2.47
3139.1	2.73	2.77	2.82
3219.3	3.15	3.19	3.24
3319.6	3.45	3.48	3.53
3399.8	3.26	3.29	3.33
3500.1	3.45	3.47	3.50

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	5	22	25	40	30	49	45	59	51	61
1	-	16	+0	31	17	40	28	37	41	64	58	59
2	74	60	40	41	60	48	49	51	42	58	64	69
3	>100	48	38	46	40	48	46	52	54	48	54	74
4	77	64	59	69	65	59	58	61	59	63	56	71
5	92	78	66	70	61	64	56	62	61	60	71	62
6	88	90	86	91	88	79	81	72	75	74	70	76
7	89	>95	92	>95	84	79	77	75	72	72	75	73
8	100	>95	>95	>95	93	>95	94	89	89	83	83	85
9	>100	>95	>95	>95	>95	>95	>95	94	91	86	86	82
10	>100	>95	>95	>95	>95	>95	>95	>95	>95	>95	>95	93
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2100.1 MHz; 4.00 dBm.
 LO IN: 2130.01 MHz; +13.00 dBm
 IF OUT: 29.91 MHz; -4.51 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+5	12	14	27	17	36	33	48	34	43
1	-	16	+0	31	17	38	27	33	36	61	56	48
2	84	60	49	51	69	57	73	59	47	65	66	69
3	>100	70	59	69	60	68	65	70	72	65	70	>85
4	91	>85	>85	>85	>85	>85	>85	>85	>85	>85	82	>85
5	>100	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
6	>100	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
7	>100	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
8	>100	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
9	>100	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
10	>100	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2100.1 MHz; -6.00 dBm.
 LO IN: 2130.01 MHz; +13.00 dBm
 IF OUT: 29.91 MHz; -14.55 dBm

- Notes: 1. All Harmonics are in (dBc) relative to IF OUTPUT.
 2. + entry denotes harmonics are in (dBc) above IF OUTPUT.
 3. RF Cal represent the Harmonics level of the RF input signal to the mixer.

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