

Frequency Mixer

HJK-ED9288/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=360MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
510.1	150.1	12.13	10.21	8.70
560.1	200.1	7.78	7.19	6.91
620.1	260.1	7.55	6.99	6.73
670.1	310.1	8.06	7.22	6.82
730.1	370.1	8.34	7.30	6.84
780.1	420.1	9.23	7.90	7.25
840.1	480.1	9.32	8.17	7.57
890.1	530.1	9.87	8.66	8.23
950.1	590.1	10.36	9.05	8.52
1000.1	640.1	10.26	8.96	8.36
1060.1	700.1	10.42	9.05	8.35
1110.1	750.1	10.33	9.00	8.30
1170.1	810.1	10.23	8.86	8.13
1220.1	860.1	9.97	8.65	7.94
1280.1	920.1	9.75	8.51	7.86
1330.1	970.1	9.44	8.35	7.74
1390.1	1030.1	9.30	8.32	7.75
1440.1	1080.1	8.92	8.12	7.67
1500.1	1140.1	8.57	7.86	7.48
1550.1	1190.1	8.25	7.72	7.44
1610.1	1250.1	7.97	7.53	7.33
1660.1	1300.1	7.85	7.49	7.33
1720.1	1360.1	7.69	7.45	7.36
1770.1	1410.1	7.61	7.41	7.35
1830.1	1470.1	7.61	7.49	7.50
1880.1	1520.1	7.72	7.67	7.73
1940.1	1580.1	8.00	8.01	8.12
1990.1	1630.1	8.30	8.38	8.53
2050.1	1690.1	8.65	8.75	8.93
2100.1	1740.1	8.79	8.88	9.05
2160.1	1800.1	8.91	8.97	9.11
2210.1	1850.1	8.91	8.91	9.02
2270.1	1910.1	9.00	9.01	9.13
2320.1	1960.1	9.06	9.03	9.15
2380.1	2020.1	9.28	9.19	9.31
2430.1	2070.1	9.43	9.33	9.45
2490.1	2130.1	9.74	9.49	9.55
2540.1	2180.1	10.01	9.78	9.86
2600.1	2240.1	10.30	9.94	9.93
2650.1	2290.1	10.79	10.32	10.26

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
510.1	150.1	18.99	18.95	19.62
560.1	200.1	22.38	24.85	26.85
620.1	260.1	20.99	23.48	24.71
670.1	310.1	18.46	20.86	23.43
730.1	370.1	17.98	19.66	22.09
780.1	420.1	18.49	18.96	20.93
840.1	480.1	17.66	17.96	18.74
890.1	530.1	16.04	16.51	18.18
950.1	590.1	18.15	18.69	21.88
1000.1	640.1	20.52	19.42	20.74
1060.1	700.1	21.80	19.32	20.16
1110.1	750.1	22.21	20.12	21.35
1170.1	810.1	24.22	21.05	22.91
1220.1	860.1	23.71	22.00	24.03
1280.1	920.1	22.98	23.17	26.02
1330.1	970.1	22.26	23.74	26.46
1390.1	1030.1	22.84	25.91	29.99
1440.1	1080.1	23.47	27.32	30.63
1500.1	1140.1	24.59	27.99	31.34
1550.1	1190.1	25.47	28.36	31.47
1610.1	1250.1	25.94	28.49	31.94
1660.1	1300.1	26.24	28.85	32.89
1720.1	1360.1	27.33	30.69	35.24
1770.1	1410.1	28.36	32.38	35.95
1830.1	1470.1	29.09	33.24	35.84
1880.1	1520.1	28.44	31.96	34.48
1940.1	1580.1	28.73	32.57	35.08
1990.1	1630.1	29.01	33.09	36.63
2050.1	1690.1	28.71	32.84	37.00
2100.1	1740.1	28.12	31.52	35.98
2160.1	1800.1	26.99	30.02	33.71
2210.1	1850.1	25.69	28.18	31.60
2270.1	1910.1	24.90	27.08	29.95
2320.1	1960.1	24.34	26.28	28.96
2380.1	2020.1	23.52	25.40	28.04
2430.1	2070.1	23.08	25.05	27.75
2490.1	2130.1	22.03	24.41	26.90
2540.1	2180.1	21.86	24.26	26.94
2600.1	2240.1	21.56	23.97	26.47
2650.1	2290.1	21.18	23.76	26.43

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+17dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
510.1	150.1	7.17	6.21	4.76
560.1	200.1	1.97	1.13	0.57
620.1	260.1	1.86	1.26	0.76
670.1	310.1	2.68	2.01	1.31
730.1	370.1	3.47	2.82	1.95
780.1	420.1	3.71	2.99	2.11
840.1	480.1	3.71	2.76	1.79
890.1	530.1	3.63	2.66	1.57
950.1	590.1	3.42	2.65	1.64
1000.1	640.1	3.78	3.17	2.13
1060.1	700.1	5.68	4.76	3.47
1110.1	750.1	5.43	4.33	3.01
1170.1	810.1	3.00	2.84	2.35
1220.1	860.1	2.28	2.13	1.92
1280.1	920.1	1.89	1.72	1.52
1330.1	970.1	1.73	1.47	1.41
1390.1	1030.1	1.43	1.13	0.90
1440.1	1080.1	1.49	1.06	0.91
1500.1	1140.1	1.39	0.83	0.75
1550.1	1190.1	1.31	0.72	0.70
1610.1	1250.1	1.30	0.67	0.73
1660.1	1300.1	1.12	0.56	0.77
1720.1	1360.1	0.99	0.46	0.73
1770.1	1410.1	0.91	0.41	0.76
1830.1	1470.1	0.77	0.35	0.67
1880.1	1520.1	0.78	0.37	0.68
1940.1	1580.1	0.68	0.33	0.76
1990.1	1630.1	0.61	0.29	0.88
2050.1	1690.1	0.61	0.28	0.60
2100.1	1740.1	0.65	0.28	0.66
2160.1	1800.1	0.68	0.30	0.62
2210.1	1850.1	0.80	0.35	0.65
2270.1	1910.1	0.90	0.38	0.68
2320.1	1960.1	1.02	0.45	0.83
2380.1	2020.1	1.17	0.59	0.84
2430.1	2070.1	1.14	0.60	1.07
2490.1	2130.1	1.19	0.73	1.87
2540.1	2180.1	1.10	0.71	1.93
2600.1	2240.1	1.03	0.70	2.00
2650.1	2290.1	1.02	0.69	1.86

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1944MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1898MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1990.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
1070.0	874.0	10.26	10.1	1908.1	7.84	1090.1	900.0	10.38
1024.9	919.1	9.78	30.5	1928.5	7.63	1069.7	920.4	10.18
979.8	964.2	9.36	50.9	1948.9	7.57	1049.3	940.8	10.03
934.7	1009.3	9.70	71.3	1969.3	7.61	1029.0	961.1	9.75
889.6	1054.4	9.61	91.7	1989.7	7.63	1008.6	981.5	9.61
844.5	1099.5	9.42	112.1	2010.1	7.73	988.2	1001.9	9.66
799.4	1144.6	9.15	132.5	2030.5	7.74	967.8	1022.3	9.86
731.7	1212.3	8.81	153.0	2051.0	7.77	947.5	1042.6	9.95
686.6	1257.4	8.62	173.4	2071.4	7.84	927.1	1063.0	9.88
618.9	1325.1	8.33	193.8	2091.8	7.91	906.7	1083.4	9.80
573.8	1370.2	8.20	214.2	2112.2	7.99	886.3	1103.8	9.70
506.2	1437.8	8.00	234.6	2132.6	8.06	865.9	1124.2	9.62
461.1	1482.9	7.97	255.0	2153.0	8.11	825.2	1164.9	9.35
393.4	1550.6	7.99	275.4	2173.4	8.19	804.8	1185.3	9.30
348.3	1595.7	8.05	295.8	2193.8	8.35	764.1	1226.0	9.14
280.6	1663.4	8.03	316.2	2214.2	8.45	743.7	1246.4	8.99
235.5	1708.5	8.05	336.6	2234.6	8.53	702.9	1287.2	8.77
167.9	1776.1	8.01	357.0	2255.0	8.57	682.6	1307.5	8.75
122.8	1821.2	7.99	377.4	2275.4	8.68	641.8	1348.3	8.57
55.1	1888.9	7.88	397.9	2295.9	8.84	621.4	1368.7	8.53
10.0	1934.0	8.08	438.7	2336.7	8.96	580.7	1409.4	8.44
44.9	1988.9	7.85	459.1	2357.1	9.07	560.3	1429.8	8.33
79.8	2023.8	7.89	499.9	2397.9	9.37	519.5	1470.6	8.26
132.1	2076.1	7.99	520.3	2418.3	9.43	499.2	1490.9	8.29
167.0	2111.0	8.13	561.1	2459.1	9.47	458.4	1531.7	8.29
219.4	2163.4	8.26	581.5	2479.5	9.54	438.0	1552.1	8.32
254.3	2198.3	8.43	622.3	2520.3	9.60	397.3	1592.8	8.40
306.6	2250.6	8.62	642.8	2540.8	9.61	376.9	1613.2	8.35
341.5	2285.5	8.81	683.6	2581.6	9.74	336.1	1654.0	8.36
393.8	2337.8	9.05	704.0	2602.0	9.73	315.8	1674.3	8.37
428.7	2372.7	9.13	744.8	2642.8	9.77	275.0	1715.1	8.35
481.1	2425.1	9.50	765.2	2663.2	9.81	254.6	1735.5	8.36
516.0	2460.0	9.57	806.0	2704.0	9.85	213.9	1776.2	8.34
568.3	2512.3	9.75	826.4	2724.4	9.85	193.5	1796.6	8.30
603.2	2547.2	9.72	867.2	2765.2	9.99	152.7	1837.4	8.20
655.5	2599.5	9.88	887.7	2785.7	10.04	132.4	1857.7	8.19
690.4	2634.4	9.86	928.5	2826.5	10.08	91.6	1898.5	8.09
742.8	2686.8	9.99	948.9	2846.9	10.19	71.2	1918.9	8.09
777.7	2721.7	9.98	989.7	2887.7	10.43	30.5	1959.6	8.05
830.0	2774.0	10.07	1010.1	2908.1	10.42	10.1	1980.0	8.21

Frequency Mixer

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
150.1	66.51	66.92	80.75	55.91	56.30	56.50
200.1	55.49	55.73	56.48	47.53	47.90	48.10
260.1	51.67	51.81	52.05	45.94	46.07	46.16
310.1	51.51	52.18	52.95	46.91	47.37	47.68
370.1	49.79	50.16	50.74	46.78	46.89	47.27
420.1	48.29	48.32	48.55	46.70	46.31	46.15
480.1	46.01	45.54	45.33	45.03	44.16	43.54
530.1	45.12	43.92	43.36	44.07	42.69	42.07
590.1	47.32	47.30	48.00	46.63	45.72	45.19
640.1	47.35	47.84	48.77	47.54	46.90	46.28
700.1	46.10	47.55	49.28	47.13	46.81	46.12
750.1	44.83	46.45	48.17	46.08	45.79	44.96
810.1	43.43	44.93	46.80	44.80	44.54	43.73
860.1	42.40	43.54	45.03	43.65	43.11	42.18
920.1	40.85	41.47	42.54	42.48	41.87	41.20
970.1	39.49	39.60	40.16	41.40	40.73	40.07
1030.1	37.55	37.36	37.71	41.65	41.46	41.53
1080.1	36.10	36.09	36.56	43.14	43.06	43.11
1140.1	35.10	35.28	35.78	44.34	43.55	43.18
1190.1	34.28	34.50	35.08	43.23	42.43	41.85
1250.1	33.30	33.44	33.96	42.73	41.78	41.12
1300.1	32.53	32.74	33.33	42.51	41.66	40.61
1360.1	31.33	31.48	31.96	43.81	42.87	41.76
1410.1	31.00	31.16	31.69	44.91	43.67	43.06
1470.1	31.78	32.14	32.75	42.05	41.03	41.39
1520.1	33.90	34.57	35.20	39.82	39.08	38.80
1580.1	33.59	34.54	35.53	38.03	37.56	36.67
1630.1	31.63	32.50	33.55	36.39	36.15	35.30
1690.1	30.34	30.98	31.98	34.89	34.71	34.41
1740.1	29.69	30.24	32.00	33.89	33.88	33.89
1800.1	29.67	30.29	31.97	33.41	33.56	33.80
1850.1	29.36	29.97	31.85	33.61	34.03	34.50
1910.1	29.47	29.92	31.95	34.41	34.93	35.99
1960.1	29.30	29.67	31.70	35.66	36.59	37.83
2020.1	29.50	29.95	31.90	37.24	38.87	40.13
2070.1	30.17	30.77	32.53	38.77	40.77	41.62
2130.1	30.50	31.33	33.26	39.29	40.69	40.91
2180.1	31.37	32.36	34.31	38.24	38.49	38.28
2240.1	31.76	32.80	34.90	36.17	35.63	35.35
2290.1	32.06	33.15	35.38	34.75	33.96	33.68

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
510.1	150.1	36.66	35.53	37.36
560.1	200.1	38.74	41.12	42.14
620.1	260.1	38.80	39.59	39.63
670.1	310.1	38.10	39.35	39.14
730.1	370.1	38.67	40.56	41.38
780.1	420.1	37.29	38.53	38.63
840.1	480.1	36.80	38.24	38.80
890.1	530.1	34.66	36.67	38.10
950.1	590.1	33.33	34.84	34.64
1000.1	640.1	34.23	35.23	33.56
1060.1	700.1	36.66	36.48	36.01
1110.1	750.1	46.35	42.12	35.00
1170.1	810.1	40.75	39.66	42.08
1220.1	860.1	34.39	34.87	38.52
1280.1	920.1	29.50	28.93	29.73
1330.1	970.1	27.55	27.53	31.41
1390.1	1030.1	26.65	27.01	31.00
1440.1	1080.1	27.47	27.96	30.82
1500.1	1140.1	28.23	28.16	29.49
1550.1	1190.1	27.17	26.63	27.20
1610.1	1250.1	25.66	25.00	25.64
1660.1	1300.1	24.04	23.35	24.01
1720.1	1360.1	22.61	21.91	22.51
1770.1	1410.1	21.67	20.98	21.50
1830.1	1470.1	20.33	19.67	20.29
1880.1	1520.1	19.50	18.83	19.51
1940.1	1580.1	18.60	17.91	18.75
1990.1	1630.1	18.32	17.61	18.44
2050.1	1690.1	18.55	17.80	18.57
2100.1	1740.1	19.44	18.65	19.34
2160.1	1800.1	20.98	20.17	20.84
2210.1	1850.1	22.90	21.98	22.60
2270.1	1910.1	25.37	24.29	24.92
2320.1	1960.1	27.49	26.22	26.82
2380.1	2020.1	30.37	28.70	29.10
2430.1	2070.1	32.67	30.72	31.05
2490.1	2130.1	37.15	33.95	33.75
2540.1	2180.1	41.19	36.96	36.20
2600.1	2240.1	51.75	42.44	39.90
2650.1	2290.1	44.44	46.15	42.57

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Frequency Mixer

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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1980MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
510.1	150.1	1.65	1.40	1.30	150.1	66.82	66.82	66.82	10.0	1.10	1.04	1.16
560.1	200.1	1.29	1.31	1.22	200.1	22.87	22.58	22.29	50.4	1.12	1.11	1.22
620.1	260.1	1.42	1.43	1.30	260.1	23.81	24.14	24.48	90.8	1.23	1.20	1.26
670.1	310.1	1.58	1.52	1.35	310.1	38.61	39.49	39.49	151.4	1.34	1.33	1.39
730.1	370.1	1.77	1.67	1.44	370.1	49.64	51.10	49.64	191.9	1.45	1.42	1.45
780.1	420.1	1.98	1.80	1.52	420.1	57.91	57.91	57.91	252.5	1.56	1.51	1.53
840.1	480.1	2.10	1.92	1.57	480.1	59.91	59.91	57.91	292.9	1.69	1.63	1.63
890.1	530.1	2.16	1.92	1.52	530.1	56.04	54.29	51.10	353.5	1.81	1.72	1.70
950.1	590.1	2.20	1.87	1.48	590.1	56.04	56.04	54.29	393.9	1.90	1.80	1.75
1000.1	640.1	2.24	1.92	1.51	640.1	54.29	52.65	49.64	454.5	2.05	1.90	1.84
1060.1	700.1	2.38	2.04	1.60	700.1	51.10	49.64	48.26	494.9	2.17	2.02	1.93
1110.1	750.1	2.41	2.09	1.62	750.1	46.96	45.72	43.44	555.6	2.26	2.08	1.98
1170.1	810.1	2.48	2.13	1.64	810.1	42.38	41.37	39.49	596.0	2.33	2.14	2.03
1220.1	860.1	2.48	2.13	1.63	860.1	40.41	39.49	37.77	656.6	2.40	2.20	2.06
1280.1	920.1	2.45	2.10	1.65	920.1	33.42	32.18	29.96	697.0	2.42	2.22	2.09
1330.1	970.1	2.40	2.06	1.59	970.1	31.03	30.49	29.46	757.6	2.44	2.23	2.09
1390.1	1030.1	2.26	1.96	1.54	1030.1	25.19	24.14	22.58	798.0	2.42	2.22	2.09
1440.1	1080.1	2.11	1.84	1.50	1080.1	22.29	21.73	20.95	858.7	2.43	2.24	2.10
1500.1	1140.1	1.96	1.71	1.41	1140.1	17.93	17.39	16.72	899.1	2.34	2.15	2.02
1550.1	1190.1	1.77	1.55	1.31	1190.1	15.00	14.50	13.81	959.7	2.27	2.10	1.97
1610.1	1250.1	1.62	1.41	1.20	1250.1	11.77	11.38	11.03	1000.1	2.25	2.08	1.96
1660.1	1300.1	1.48	1.30	1.14	1300.1	9.08	8.68	8.31	1060.7	2.19	2.04	1.94
1720.1	1360.1	1.34	1.18	1.11	1360.1	6.66	6.42	6.21	1101.1	2.10	1.96	1.86
1770.1	1410.1	1.23	1.09	1.12	1410.1	4.88	4.67	4.51	1161.8	1.97	1.84	1.76
1830.1	1470.1	1.09	1.05	1.22	1470.1	3.28	3.15	3.04	1202.2	1.92	1.79	1.71
1880.1	1520.1	1.09	1.15	1.29	1520.1	2.36	2.26	2.19	1262.8	1.76	1.65	1.58
1940.1	1580.1	1.17	1.26	1.39	1580.1	1.59	1.53	1.47	1303.2	1.68	1.58	1.51
1990.1	1630.1	1.24	1.34	1.42	1630.1	1.20	1.16	1.15	1363.8	1.55	1.46	1.41
2050.1	1690.1	1.26	1.35	1.41	1690.1	1.32	1.37	1.41	1404.2	1.49	1.41	1.37
2100.1	1740.1	1.28	1.36	1.41	1740.1	1.70	1.76	1.81	1464.8	1.35	1.29	1.27
2160.1	1800.1	1.26	1.35	1.43	1800.1	2.23	2.31	2.37	1505.3	1.31	1.25	1.25
2210.1	1850.1	1.28	1.40	1.50	1850.1	2.71	2.80	2.87	1565.9	1.22	1.19	1.22
2270.1	1910.1	1.32	1.49	1.59	1910.1	3.27	3.36	3.42	1606.3	1.18	1.20	1.25
2320.1	1960.1	1.40	1.60	1.71	1960.1	3.78	3.88	3.96	1666.9	1.14	1.21	1.29
2380.1	2020.1	1.48	1.71	1.82	2020.1	4.26	4.34	4.36	1707.3	1.15	1.25	1.33
2430.1	2070.1	1.58	1.83	1.92	2070.1	4.72	4.82	4.88	1767.9	1.19	1.31	1.40
2490.1	2130.1	1.67	1.94	2.02	2130.1	5.04	5.12	5.13	1808.4	1.23	1.35	1.45
2540.1	2180.1	1.80	2.06	2.10	2180.1	5.34	5.41	5.41	1869.0	1.27	1.41	1.51
2600.1	2240.1	1.95	2.21	2.19	2240.1	5.63	5.70	5.70	1909.4	1.31	1.46	1.56
2650.1	2290.1	2.03	2.28	2.22	2290.1	5.66	5.66	5.59	1970.0	1.33	1.48	1.61

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Harmonics Tables

RF HARMONICS ORDER	(-dBm)											
	(-dBc)											
0	-	-	14	10	21	33	38	29	31	52	44	65
1	-	10	+0	40	19	42	25	43	35	51	41	63
2	55	48	52	52	47	63	56	51	54	63	54	55
3	88	66	65	69	56	61	60	71	61	68	67	75
4	>90	>84	>84	>84	82	79	79	75	>84	>84	>84	>84
5	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
6	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
7	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
8	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
9	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
10	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
RF CAL 0 1 2 3 4 5 6 7 8 9 10												

LO HARMONICS ORDER

Test conditions:

RF IN: 1944 MHz; 2.00 dBm.
LO IN: 1584 MHz; +17.00 dBm
IF OUT: 360 MHz; -6.22 dBm

RF HARMONICS ORDER	(-dBm)											
	(-dBc)											
0	-	-	24	19	32	43	44	39	39	50	56	66
1	-	10	+0	49	20	41	27	43	39	50	49	63
2	35	38	43	45	37	56	46	46	45	54	49	54
3	59	48	45	54	37	51	40	63	44	58	52	60
4	81	67	60	67	59	58	60	51	76	58	62	71
5	>90	76	75	68	67	74	57	59	57	67	66	66
6	>90	89	82	88	75	79	77	71	66	65	72	72
7	>90	>94	87	82	>94	81	86	>94	79	73	73	78
8	>90	>94	>94	>94	84	89	85	85	86	87	77	86
9	>90	>94	>94	>94	91	92	93	91	>94	>94	90	78
10	>90	>94	>94	>94	>94	>94	89	89	89	87	87	90
RF CAL 0 1 2 3 4 5 6 7 8 9 10												

LO HARMONICS ORDER

Test conditions:

RF IN: 1944 MHz; 12.00 dBm.
LO IN: 1584 MHz; +17.00 dBm
IF OUT: 360 MHz; 3.75 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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