

Frequency Mixer

HJK-ED12532/2

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	15.30	14.53	13.86
70.6	100.6	8.35	8.10	7.92
131.0	161.0	7.69	7.50	7.36
191.5	221.5	7.67	7.53	7.43
251.9	281.9	7.49	7.35	7.28
312.4	342.4	7.53	7.39	7.31
372.8	402.8	7.93	7.80	7.71
433.3	463.3	8.04	7.94	7.84
513.9	543.9	7.43	7.30	7.22
574.3	604.3	7.46	7.30	7.20
654.9	684.9	7.65	7.48	7.36
715.4	745.4	7.77	7.57	7.43
796.0	826.0	8.07	7.85	7.70
856.4	886.4	8.37	8.14	7.97
937.0	967.0	8.60	8.38	8.22
997.5	1027.5	8.74	8.49	8.34
1078.1	1108.1	8.87	8.64	8.49
1138.5	1168.5	8.87	8.63	8.47
1219.1	1249.1	8.97	8.71	8.52
1279.6	1309.6	9.13	8.86	8.66
1360.2	1390.2	9.21	8.95	8.77
1420.6	1450.6	9.19	8.96	8.80
1501.2	1531.2	9.17	8.97	8.84
1561.7	1591.7	9.16	8.95	8.81
1642.3	1672.3	9.16	8.95	8.81
1702.7	1732.7	9.23	9.03	8.91
1783.3	1813.3	9.26	9.08	8.98
1843.8	1873.8	9.22	9.00	8.87
1924.4	1954.4	9.28	9.04	8.89
1984.8	2014.8	9.41	9.17	9.01
2065.4	2095.4	9.60	9.39	9.26
2125.9	2155.9	9.68	9.48	9.36
2206.5	2236.5	9.76	9.56	9.45
2266.9	2296.9	9.82	9.61	9.49
2347.5	2377.5	9.84	9.59	9.45
2408.0	2438.0	9.84	9.57	9.38
2488.6	2518.6	9.98	9.71	9.51
2549.0	2579.0	10.26	10.00	9.80
2629.6	2659.6	10.67	10.44	10.27
2690.1	2720.1	10.96	10.75	10.62

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	19.05	19.59	20.11
70.6	100.6	21.77	24.19	25.61
131.0	161.0	24.16	25.68	28.10
191.5	221.5	22.64	24.26	25.96
251.9	281.9	27.62	31.26	32.75
312.4	342.4	27.90	31.02	36.17
372.8	402.8	22.67	24.78	27.34
433.3	463.3	25.72	29.54	31.06
513.9	543.9	29.06	31.61	34.07
574.3	604.3	27.18	29.28	31.22
654.9	684.9	26.53	29.10	30.91
715.4	745.4	25.21	28.35	31.06
796.0	826.0	23.10	25.45	28.42
856.4	886.4	22.50	24.73	27.90
937.0	967.0	21.21	23.19	26.04
997.5	1027.5	20.62	22.65	25.43
1078.1	1108.1	20.12	21.74	24.26
1138.5	1168.5	20.46	21.67	23.65
1219.1	1249.1	21.21	22.23	23.56
1279.6	1309.6	21.37	22.66	23.81
1360.2	1390.2	21.76	23.26	24.48
1420.6	1450.6	22.02	23.67	24.96
1501.2	1531.2	21.97	23.75	25.57
1561.7	1591.7	21.94	23.86	25.56
1642.3	1672.3	22.15	24.34	25.98
1702.7	1732.7	22.44	24.86	26.84
1783.3	1813.3	23.22	25.79	28.27
1843.8	1873.8	23.13	25.79	28.01
1924.4	1954.4	22.89	25.25	27.19
1984.8	2014.8	22.94	25.14	27.23
2065.4	2095.4	23.15	25.38	27.61
2125.9	2155.9	23.42	25.57	27.79
2206.5	2236.5	23.70	26.26	28.10
2266.9	2296.9	24.01	26.80	28.64
2347.5	2377.5	23.89	26.75	28.15
2408.0	2438.0	23.72	26.01	27.33
2488.6	2518.6	23.42	25.63	26.84
2549.0	2579.0	23.45	25.86	27.01
2629.6	2659.6	23.69	26.35	27.95
2690.1	2720.1	23.61	26.54	28.36

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+17dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	2.35	1.25	0.29
70.6	100.6	3.09	1.51	0.59
131.0	161.0	1.22	0.50	0.23
191.5	221.5	0.49	0.20	0.09
251.9	281.9	0.34	0.18	0.10
312.4	342.4	0.21	0.13	0.09
372.8	402.8	0.12	0.02	-0.01
433.3	463.3	0.75	0.43	0.16
513.9	543.9	0.49	0.18	0.08
574.3	604.3	0.59	0.22	0.10
654.9	684.9	0.73	0.29	0.13
715.4	745.4	0.87	0.34	0.15
796.0	826.0	1.07	0.45	0.20
856.4	886.4	1.49	0.67	0.31
937.0	967.0	1.43	0.57	0.27
997.5	1027.5	1.29	0.59	0.30
1078.1	1108.1	1.37	0.68	0.37
1138.5	1168.5	1.48	0.74	0.41
1219.1	1249.1	1.56	0.81	0.44
1279.6	1309.6	1.60	0.81	0.45
1360.2	1390.2	1.78	0.89	0.49
1420.6	1450.6	1.86	0.91	0.51
1501.2	1531.2	1.75	0.92	0.49
1561.7	1591.7	1.78	0.99	0.53
1642.3	1672.3	1.85	1.03	0.55
1702.7	1732.7	1.77	0.97	0.52
1783.3	1813.3	1.59	0.89	0.44
1843.8	1873.8	1.63	0.86	0.44
1924.4	1954.4	1.67	0.86	0.45
1984.8	2014.8	1.61	0.83	0.41
2065.4	2095.4	1.54	0.79	0.41
2125.9	2155.9	1.47	0.79	0.41
2206.5	2236.5	1.46	0.77	0.41
2266.9	2296.9	1.44	0.74	0.38
2347.5	2377.5	1.50	0.72	0.37
2408.0	2438.0	1.63	0.77	0.37
2488.6	2518.6	1.66	0.82	0.42
2549.0	2579.0	1.58	0.79	0.41
2629.6	2659.6	1.52	0.77	0.41
2690.1	2720.1	1.58	0.76	0.42

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Frequency Mixer

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1005.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=59.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2000.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
590.1	415.0	10.34	10.1	70.0	8.44	1010.1	990.0	11.10
575.2	429.9	10.75	50.1	110.0	8.00	989.7	1010.4	9.70
560.4	444.7	8.96	90.1	150.0	7.86	969.3	1030.8	9.49
545.5	459.6	7.61	130.1	190.0	7.72	948.9	1051.2	9.47
530.6	474.5	7.46	170.1	230.0	7.60	928.5	1071.6	9.60
515.7	489.4	7.58	210.1	270.0	7.51	908.1	1092.0	9.53
500.9	504.2	9.09	250.1	310.0	7.49	887.7	1112.4	9.67
486.0	519.1	7.35	290.1	350.0	7.50	867.2	1132.9	9.55
471.1	534.0	7.35	330.1	390.0	7.52	846.8	1153.3	9.63
456.3	548.8	7.40	370.1	430.0	7.74	826.4	1173.7	9.56
441.4	563.7	7.45	410.1	470.0	8.84	806.0	1194.1	9.58
426.5	578.6	7.52	450.1	510.0	8.40	785.6	1214.5	9.53
411.6	593.5	7.59	490.1	550.0	8.07	765.2	1234.9	9.49
396.8	608.3	7.68	530.1	590.0	7.93	744.8	1255.3	9.50
381.9	623.2	7.76	570.1	630.0	7.87	724.4	1275.7	9.44
367.0	638.1	7.81	610.1	670.0	7.83	704.0	1296.1	9.46
352.2	652.9	7.92	650.1	710.0	7.81	683.6	1316.5	9.39
337.3	667.8	8.04	690.1	750.0	7.78	663.2	1336.9	9.44
322.4	682.7	8.09	730.1	790.0	7.83	642.8	1357.3	9.41
307.5	697.6	8.19	770.1	830.0	7.88	622.3	1377.8	9.42
292.7	712.4	8.27	810.1	870.0	7.99	581.5	1418.6	9.35
277.8	727.3	8.29	850.1	910.0	8.10	561.1	1439.0	9.37
262.9	742.2	8.34	890.1	950.0	8.17	520.3	1479.8	9.39
248.0	757.1	8.39	930.1	990.0	8.21	499.9	1500.2	9.34
233.2	771.9	8.40	970.1	1030.0	8.24	459.1	1541.0	9.28
218.3	786.8	8.43	1010.1	1070.0	8.33	438.7	1561.4	9.17
203.4	801.7	8.47	1050.1	1110.0	8.41	397.9	1602.2	9.14
188.6	816.5	8.47	1070.1	1130.0	8.52	377.4	1622.7	9.15
173.7	831.4	8.51	1110.1	1170.0	8.67	336.6	1663.5	9.14
158.8	846.3	8.53	1130.1	1190.0	8.73	316.2	1683.9	9.11
143.9	861.2	8.54	1170.1	1230.0	8.92	275.4	1724.7	9.16
129.1	876.0	8.52	1190.1	1250.0	8.99	255.0	1745.1	9.18
114.2	890.9	8.54	1230.1	1290.0	9.17	214.2	1785.9	9.19
99.3	905.8	8.49	1250.1	1310.0	9.31	193.8	1806.3	9.22
84.5	920.6	8.48	1290.1	1350.0	9.56	153.0	1847.1	9.21
69.6	935.5	8.50	1310.1	1370.0	9.71	132.5	1867.6	9.21
54.7	950.4	8.46	1350.1	1410.0	10.00	91.7	1908.4	9.21
39.8	965.3	8.46	1370.1	1430.0	10.17	71.3	1928.8	9.20
25.0	980.1	8.47	1410.1	1470.0	10.71	30.5	1969.6	9.17
10.1	995.0	8.54	1430.1	1490.0	10.94	10.1	1990.0	9.23

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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
40.1	60.92	60.40	60.34	74.62	74.33	74.33
100.6	54.23	54.15	54.05	56.92	57.02	56.98
161.0	51.91	51.92	51.72	48.21	48.32	48.34
221.5	52.98	53.12	53.30	42.07	42.01	42.09
281.9	58.09	60.70	62.13	39.13	39.18	39.31
342.4	49.56	50.03	50.42	35.84	35.81	35.86
402.8	41.07	41.00	41.11	33.07	32.94	32.91
463.3	47.74	47.93	47.85	34.65	34.79	34.82
543.9	44.35	44.23	44.21	36.76	36.64	36.59
604.3	42.53	42.48	42.51	37.15	37.01	37.02
684.9	40.76	40.95	41.07	37.83	37.90	37.95
745.4	40.44	40.52	40.61	39.10	39.06	39.11
826.0	39.87	40.19	40.40	41.62	41.81	42.18
886.4	39.30	39.69	39.74	45.20	45.36	45.02
967.0	37.56	37.98	38.22	50.67	51.06	50.73
1027.5	37.36	37.73	38.24	54.17	55.65	57.18
1108.1	37.09	37.61	38.04	47.85	48.27	48.78
1168.5	36.96	37.52	37.93	43.63	43.90	44.14
1249.1	35.65	36.16	36.48	39.79	40.04	40.22
1309.6	35.97	36.51	36.91	37.77	38.01	38.18
1390.2	36.98	37.50	38.07	35.39	35.57	35.88
1450.6	40.18	41.38	42.52	34.54	34.77	35.09
1531.2	40.28	41.12	41.75	34.72	34.98	35.17
1591.7	39.75	40.31	40.66	34.44	34.68	34.81
1672.3	39.94	39.90	39.80	33.95	34.14	34.36
1732.7	37.10	36.72	36.44	33.57	33.74	33.95
1813.3	35.87	36.02	36.08	33.97	34.36	34.63
1873.8	36.95	37.06	37.44	34.63	34.95	35.41
1954.4	40.10	40.24	40.69	35.10	35.42	35.86
2014.8	43.79	43.76	43.90	35.16	35.42	35.66
2095.4	48.77	47.32	46.24	34.59	34.75	34.88
2155.9	46.05	44.78	43.59	33.56	33.78	33.82
2236.5	40.23	39.42	38.91	31.97	32.00	32.14
2296.9	36.77	36.21	35.84	30.65	30.67	30.78
2377.5	34.14	33.60	33.29	28.91	28.80	28.85
2438.0	32.76	32.65	32.24	27.47	27.61	27.50
2518.6	30.91	30.92	30.61	25.86	26.03	25.91
2579.0	29.64	29.71	29.48	24.84	24.98	24.87
2659.6	28.78	28.86	28.73	23.65	23.79	23.68
2720.1	28.66	28.66	28.79	22.91	22.85	22.95

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	40.96	42.01	43.90
70.6	100.6	43.11	46.41	51.59
131.0	161.0	40.16	38.93	39.06
191.5	221.5	40.38	40.33	41.03
251.9	281.9	42.30	43.03	42.21
312.4	342.4	40.42	40.55	40.95
372.8	402.8	38.96	39.51	40.04
433.3	463.3	42.42	41.97	41.01
513.9	543.9	39.69	40.05	40.12
574.3	604.3	38.50	39.20	39.77
654.9	684.9	38.30	38.66	39.25
715.4	745.4	40.60	40.77	41.14
796.0	826.0	40.55	40.00	39.46
856.4	886.4	41.62	42.84	45.38
937.0	967.0	43.66	44.36	44.63
997.5	1027.5	43.65	43.88	44.00
1078.1	1108.1	42.49	42.39	41.85
1138.5	1168.5	38.96	38.22	37.04
1219.1	1249.1	37.38	36.91	36.17
1279.6	1309.6	35.54	35.19	34.61
1360.2	1390.2	32.75	32.43	32.00
1420.6	1450.6	31.43	31.13	30.82
1501.2	1531.2	30.74	30.64	30.47
1561.7	1591.7	29.56	29.53	29.46
1642.3	1672.3	27.98	27.93	27.87
1702.7	1732.7	26.97	26.89	26.83
1783.3	1813.3	26.08	25.94	25.85
1843.8	1873.8	25.73	25.57	25.47
1924.4	1954.4	25.16	24.98	24.82
1984.8	2014.8	24.40	24.20	24.06
2065.4	2095.4	22.99	22.78	22.62
2125.9	2155.9	22.04	21.81	21.67
2206.5	2236.5	21.00	20.79	20.65
2266.9	2296.9	20.49	20.32	20.16
2347.5	2377.5	19.86	19.72	19.63
2408.0	2438.0	19.29	19.18	19.09
2488.6	2518.6	18.46	18.40	18.35
2549.0	2579.0	17.85	17.81	17.78
2629.6	2659.6	17.42	17.40	17.37
2690.1	2720.1	17.19	17.18	17.18

Frequency Mixer

HJK-ED12532/2

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1990MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
10.1	40.1	16.72	23.49	12.80	40.1	4.42	4.42	4.42	10.0	1.44	1.57	1.67
70.6	100.6	1.92	1.95	1.98	100.6	4.31	4.30	4.31	50.0	1.39	1.51	1.62
131.0	161.0	1.75	1.81	1.88	161.0	4.21	4.21	4.21	90.0	1.39	1.51	1.61
191.5	221.5	1.70	1.76	1.80	221.5	4.05	4.04	4.03	130.0	1.36	1.48	1.58
251.9	281.9	1.77	1.85	1.91	281.9	3.89	3.88	3.89	170.0	1.33	1.45	1.54
312.4	342.4	1.64	1.68	1.71	342.4	3.62	3.61	3.59	210.0	1.31	1.43	1.52
372.8	402.8	1.48	1.49	1.49	402.8	3.17	3.16	3.09	250.0	1.27	1.38	1.46
433.3	463.3	2.51	2.66	2.73	463.3	2.90	2.92	2.73	290.0	1.25	1.36	1.45
513.9	543.9	2.09	2.17	2.24	543.9	3.43	3.43	3.42	330.0	1.20	1.30	1.39
574.3	604.3	2.11	2.15	2.20	604.3	3.50	3.50	3.49	370.0	1.17	1.27	1.36
654.9	684.9	2.32	2.32	2.33	684.9	3.54	3.54	3.54	410.0	1.14	1.24	1.32
715.4	745.4	2.51	2.48	2.48	745.4	3.57	3.57	3.57	430.0	1.12	1.22	1.29
796.0	826.0	2.78	2.74	2.71	826.0	3.58	3.58	3.58	470.0	1.08	1.18	1.25
856.4	886.4	2.92	2.87	2.85	886.4	3.59	3.59	3.58	490.0	1.09	1.18	1.26
937.0	967.0	2.92	2.88	2.86	967.0	3.60	3.60	3.59	530.0	1.07	1.14	1.21
997.5	1027.5	2.85	2.81	2.79	1027.5	3.60	3.61	3.61	550.0	1.10	1.16	1.23
1078.1	1108.1	2.66	2.62	2.61	1108.1	3.60	3.60	3.60	590.0	1.13	1.17	1.23
1138.5	1168.5	2.48	2.44	2.42	1168.5	3.56	3.56	3.55	610.0	1.16	1.19	1.24
1219.1	1249.1	2.32	2.28	2.25	1249.1	3.53	3.52	3.52	650.0	1.19	1.22	1.26
1279.6	1309.6	2.18	2.15	2.14	1309.6	3.50	3.50	3.50	670.0	1.23	1.26	1.30
1360.2	1390.2	1.96	1.94	1.93	1390.2	3.43	3.43	3.43	710.0	1.27	1.30	1.34
1420.6	1450.6	1.77	1.76	1.75	1450.6	3.35	3.34	3.32	730.0	1.30	1.33	1.37
1501.2	1531.2	1.54	1.54	1.55	1531.2	3.33	3.32	3.31	770.0	1.38	1.41	1.45
1561.7	1591.7	1.42	1.43	1.45	1591.7	3.30	3.30	3.30	790.0	1.39	1.42	1.46
1642.3	1672.3	1.29	1.32	1.36	1672.3	3.24	3.24	3.22	830.0	1.47	1.51	1.55
1702.7	1732.7	1.25	1.29	1.35	1732.7	3.19	3.18	3.16	850.0	1.49	1.54	1.58
1783.3	1813.3	1.25	1.32	1.40	1813.3	3.20	3.20	3.19	890.0	1.56	1.61	1.65
1843.8	1873.8	1.27	1.34	1.41	1873.8	3.21	3.21	3.21	910.0	1.59	1.65	1.71
1924.4	1954.4	1.36	1.43	1.50	1954.4	3.21	3.21	3.20	950.0	1.75	1.83	1.90
1984.8	2014.8	1.47	1.55	1.63	2014.8	3.21	3.21	3.19	970.0	1.81	1.89	1.97
2065.4	2095.4	1.62	1.71	1.80	2095.4	3.21	3.20	3.20	1010.0	1.94	2.04	2.12
2125.9	2155.9	1.70	1.80	1.91	2155.9	3.18	3.18	3.17	1030.0	2.05	2.16	2.24
2206.5	2236.5	1.78	1.89	2.00	2236.5	3.11	3.10	3.09	1070.0	2.15	2.27	2.36
2266.9	2296.9	1.78	1.89	1.99	2296.9	3.02	3.02	3.00	1090.0	2.26	2.39	2.49
2347.5	2377.5	1.74	1.82	1.91	2377.5	2.87	2.87	2.86	1130.0	2.45	2.59	2.70
2408.0	2438.0	1.77	1.85	1.93	2438.0	2.72	2.72	2.71	1150.0	2.52	2.68	2.80
2488.6	2518.6	1.96	2.03	2.11	2518.6	2.50	2.50	2.48	1190.0	2.77	2.93	3.06
2549.0	2579.0	2.10	2.17	2.24	2579.0	2.34	2.34	2.32	1210.0	2.88	3.06	3.18
2629.6	2659.6	2.24	2.31	2.38	2659.6	2.15	2.14	2.14	1250.0	3.13	3.33	3.46
2690.1	2720.1	2.32	2.40	2.47	2720.1	2.04	2.04	2.04	1270.0	3.25	3.45	3.58

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	28	34	38	31	37	39	30	41	52	61
1	-	25	+0	36	24	46	28	40	49	51	51	55
2	58	61	52	57	58	>81	>81	72	73	60	57	59
3	>90	>81	64	64	54	65	67	>81	67	77	>81	80
4	>90	>81	>81	>81	>81	>81	81	>81	>81	>81	>81	>81
5	>90	>81	>81	>81	>81	>81	79	>81	>81	>81	>81	>81
6	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
7	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
8	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
9	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
10	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1030 MHz; 0.00 dBm.
LO IN: 1060 MHz; +17.00 dBm
IF OUT: 30 MHz; -8.65 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	38	42	48	40	47	46	43	44	58	58
1	-	27	+0	38	25	47	30	41	53	55	57	62
2	38	52	43	47	49	73	69	68	68	58	55	59
3	66	82	46	51	36	51	50	77	48	63	66	65
4	89	70	88	82	62	78	60	80	79	78	84	69
5	>90	79	68	>91	66	68	54	67	67	>91	65	79
6	>90	86	>91	91	>91	>91	72	>91	72	89	87	87
7	>90	>91	>91	>91	87	>91	86	76	72	83	84	>91
8	>90	89	89	>91	>91	>91	>91	>91	81	91	83	>91
9	>90	>91	>91	>91	>91	>91	>91	>91	>91	88	87	86
10	>90	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1030 MHz; 10.00 dBm.
LO IN: 1060 MHz; +17.00 dBm
IF OUT: 30 MHz; 1.22 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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