

# Frequency Mixer

# LRMS-25J+

## 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=+5dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+7	+10	+13			+7	+10	+13			+7	+10	+13
600.0	630.0	11.48	10.54	10.17	600.0	630.0	7.48	10.49	14.75	600.0	630.0	0.87	0.60	0.36
660.0	690.0	10.46	9.67	9.40	660.0	690.0	5.36	6.98	9.71	660.0	690.0	1.26	0.95	0.61
720.0	750.0	9.79	8.97	8.64	720.0	750.0	6.81	9.03	9.62	720.0	750.0	1.55	1.29	1.05
780.0	810.0	9.15	8.35	7.96	780.0	810.0	10.23	12.36	10.50	780.0	810.0	1.79	1.52	1.27
860.0	890.0	8.33	7.67	7.33	860.0	890.0	10.62	13.14	13.88	860.0	890.0	2.07	1.87	1.65
920.0	950.0	7.67	7.07	6.75	920.0	950.0	9.05	10.06	11.07	920.0	950.0	2.34	2.17	1.95
1000.0	1030.0	6.95	6.49	6.18	1000.0	1030.0	9.32	8.91	8.26	1000.0	1030.0	2.47	2.17	1.95
1060.0	1090.0	6.49	6.07	5.73	1060.0	1090.0	9.04	7.64	6.15	1060.0	1090.0	2.62	2.26	1.96
1140.0	1170.0	6.19	5.69	5.22	1140.0	1170.0	8.79	6.94	7.18	1140.0	1170.0	2.64	2.31	2.03
1200.0	1230.0	5.99	5.48	5.02	1200.0	1230.0	7.17	6.81	8.83	1200.0	1230.0	2.84	2.38	2.00
1280.0	1310.0	5.94	5.41	5.01	1280.0	1310.0	6.41	7.26	9.48	1280.0	1310.0	2.73	2.31	1.90
1340.0	1370.0	6.19	5.56	5.17	1340.0	1370.0	9.52	10.64	12.99	1340.0	1370.0	2.38	2.02	1.58
1420.0	1450.0	6.09	5.68	5.45	1420.0	1450.0	10.62	15.10	17.82	1420.0	1450.0	2.45	1.87	1.45
1480.0	1510.0	6.25	5.97	5.81	1480.0	1510.0	12.35	16.09	18.75	1480.0	1510.0	2.08	1.62	1.31
1560.0	1590.0	6.18	6.23	6.27	1560.0	1590.0	16.28	19.47	20.61	1560.0	1590.0	1.49	1.09	0.83
1620.0	1650.0	5.63	5.63	5.69	1620.0	1650.0	15.70	16.93	17.29	1620.0	1650.0	1.43	1.02	0.82
1700.0	1730.0	5.57	5.54	5.59	1700.0	1730.0	19.81	16.71	17.34	1700.0	1730.0	1.12	0.68	0.57
1760.0	1790.0	5.56	5.47	5.50	1760.0	1790.0	15.01	18.16	17.21	1760.0	1790.0	0.99	0.61	0.49
1840.0	1870.0	5.54	5.40	5.40	1840.0	1870.0	10.83	14.50	19.29	1840.0	1870.0	0.87	0.51	0.36
1900.0	1930.0	5.64	5.45	5.40	1900.0	1930.0	12.97	13.28	14.97	1900.0	1930.0	0.76	0.44	0.31
1980.0	2010.0	5.53	5.40	5.42	1980.0	2010.0	11.89	13.56	15.39	1980.0	2010.0	1.27	0.81	0.54
2040.0	2070.0	5.93	5.76	5.72	2040.0	2070.0	9.55	12.28	15.43	2040.0	2070.0	1.81	1.37	1.00
2120.0	2150.0	7.36	6.55	6.12	2120.0	2150.0	15.24	20.58	22.00	2120.0	2150.0	1.28	1.13	0.92
2180.0	2210.0	7.27	6.54	6.19	2180.0	2210.0	15.26	15.72	16.82	2180.0	2210.0	1.33	1.05	0.75
2260.0	2290.0	6.83	6.21	5.97	2260.0	2290.0	14.74	15.78	17.08	2260.0	2290.0	1.50	1.10	0.78
2320.0	2350.0	6.48	5.97	5.75	2320.0	2350.0	11.92	13.85	15.22	2320.0	2350.0	1.67	1.29	1.00
2400.0	2430.0	6.00	5.60	5.47	2400.0	2430.0	10.49	12.04	13.72	2400.0	2430.0	1.76	1.33	1.01
2460.0	2490.0	6.07	5.57	5.40	2460.0	2490.0	12.22	13.39	14.40	2460.0	2490.0	1.70	1.31	0.97
2540.0	2570.0	6.01	5.56	5.37	2540.0	2570.0	10.83	12.91	14.21	2540.0	2570.0	1.85	1.40	1.04
2600.0	2630.0	5.79	5.49	5.39	2600.0	2630.0	10.70	12.06	13.24	2600.0	2630.0	1.99	1.48	1.09
2680.0	2710.0	5.74	5.38	5.26	2680.0	2710.0	10.08	11.85	13.05	2680.0	2710.0	2.01	1.56	1.17
2740.0	2770.0	6.04	5.61	5.45	2740.0	2770.0	9.91	11.90	13.55	2740.0	2770.0	1.97	1.52	1.09
2820.0	2850.0	6.54	6.14	6.00	2820.0	2850.0	11.93	13.72	15.40	2820.0	2850.0	1.74	1.33	0.97
2880.0	2910.0	6.93	6.75	6.71	2880.0	2910.0	13.15	14.15	16.03	2880.0	2910.0	1.42	1.03	0.76
2960.0	2990.0	7.32	7.20	7.28	2960.0	2990.0	15.54	14.22	15.89	2960.0	2990.0	1.14	0.74	0.57
3020.0	3050.0	7.76	7.45	7.48	3020.0	3050.0	11.04	17.48	15.71	3020.0	3050.0	1.02	0.61	0.49
3100.0	3130.0	8.49	8.07	8.09	3100.0	3130.0	10.40	13.34	14.82	3100.0	3130.0	0.76	0.49	0.36
3160.0	3190.0	9.41	8.79	8.76	3160.0	3190.0	13.75	17.10	20.61	3160.0	3190.0	0.39	0.33	0.24
3240.0	3270.0	10.51	9.65	9.60	3240.0	3270.0	17.29	21.42	22.27	3240.0	3270.0	0.16	0.20	0.17
3300.0	3330.0	11.40	10.43	10.30	3300.0	3330.0	15.94	24.51	23.66	3300.0	3330.0	0.13	0.13	0.12

# Frequency Mixer

# LRMS-25J+

## Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1625MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=739.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2510.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+10			+10			+10
830.0	795.0	10.34	10.1	750.0	8.83	810.1	1700.0	10.44
791.9	833.1	9.78	20.1	760.0	8.65	789.6	1720.5	9.94
753.7	871.3	9.48	30.1	770.0	8.76	769.1	1741.0	9.44
715.6	909.4	8.78	40.1	780.0	8.85	748.6	1761.5	9.00
677.4	947.6	8.10	50.1	790.0	8.94	728.0	1782.1	8.58
639.3	985.7	7.60	60.1	800.0	9.07	707.5	1802.6	8.26
601.2	1023.8	7.26	70.1	810.0	9.15	687.0	1823.1	7.98
563.0	1062.0	6.89	80.1	820.0	9.20	666.5	1843.6	7.69
524.9	1100.1	6.83	90.1	830.0	9.27	646.0	1864.1	7.49
486.7	1138.3	6.58	100.1	840.0	9.39	625.5	1884.6	7.47
448.6	1176.4	6.47	110.1	850.0	9.38	605.0	1905.1	7.49
410.5	1214.5	6.51	120.1	860.0	9.33	584.5	1925.6	7.54
372.3	1252.7	6.41	130.1	870.0	9.38	563.9	1946.2	7.66
334.2	1290.8	6.47	140.1	880.0	9.47	543.4	1966.7	7.93
296.0	1329.0	6.50	150.1	890.0	9.41	522.9	1987.2	7.91
257.9	1367.1	6.50	160.1	900.0	9.43	502.4	2007.7	7.73
219.8	1405.2	6.41	170.1	910.0	9.56	481.9	2028.2	7.47
181.6	1443.4	6.37	180.1	920.0	9.61	461.4	2048.7	7.31
143.5	1481.5	6.46	190.1	930.0	9.61	440.9	2069.2	6.96
105.3	1519.7	6.39	200.1	940.0	9.62	420.4	2089.7	6.94
67.2	1557.8	6.03	210.1	950.0	9.68	399.8	2110.3	6.78
29.1	1595.9	5.62	220.1	960.0	9.75	379.3	2130.8	6.75
10.0	1635.0	5.88	230.1	970.0	9.75	358.8	2151.3	6.60
74.2	1699.2	5.83	240.1	980.0	9.69	338.3	2171.8	6.57
117.0	1742.0	5.97	250.1	990.0	9.82	317.8	2192.3	6.31
181.2	1806.2	5.96	260.1	1000.0	9.94	297.3	2212.8	6.16
224.0	1849.0	5.93	270.1	1010.0	9.93	276.8	2233.3	6.05
288.1	1913.1	5.30	280.1	1020.0	9.85	256.3	2253.8	6.00
330.9	1955.9	5.33	290.1	1030.0	9.89	235.7	2274.4	6.00
395.1	2020.1	5.67	300.1	1040.0	9.95	215.2	2294.9	5.98
437.9	2062.9	6.05	310.1	1050.0	9.87	194.7	2315.4	5.96
502.1	2127.1	6.70	320.1	1060.0	9.84	174.2	2335.9	5.80
544.9	2169.9	6.72	330.1	1070.0	9.92	153.7	2356.4	5.71
609.1	2234.1	6.95	340.1	1080.0	9.90	133.2	2376.9	5.59
651.9	2276.9	7.20	360.1	1100.0	9.89	112.7	2397.4	5.56
716.0	2341.0	7.48	370.1	1110.0	10.09	92.2	2417.9	5.46
758.8	2383.8	7.63	390.1	1130.0	10.04	71.6	2438.5	5.42
823.0	2448.0	8.34	400.1	1140.0	10.36	51.1	2459.0	5.33
865.8	2490.8	9.04	420.1	1160.0	10.16	30.6	2479.5	5.29
930.0	2555.0	10.31	430.1	1170.0	10.15	10.1	2500.0	5.66

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# LRMS-25J+

## Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+7	+10	+13	+7	+10	+13
630.0	21.41	22.51	23.92	9.15	10.12	11.44
690.0	20.66	21.73	23.07	8.68	9.72	11.02
750.0	20.39	21.60	22.87	8.53	9.71	11.09
810.0	21.01	22.30	23.47	8.99	10.32	11.72
890.0	22.99	24.57	25.77	9.99	11.43	12.86
950.0	24.73	26.42	27.54	10.84	12.36	13.75
1030.0	27.85	29.43	30.50	12.22	13.74	15.20
1090.0	31.85	34.12	35.43	13.46	14.97	16.35
1170.0	39.70	40.87	39.52	15.10	16.66	18.05
1230.0	42.07	39.70	38.13	16.57	17.97	19.38
1310.0	37.82	35.97	36.14	18.44	19.81	21.27
1370.0	35.63	34.19	35.17	19.72	21.12	22.63
1450.0	37.09	34.03	34.50	21.11	22.74	24.44
1510.0	36.75	33.91	34.03	21.92	23.61	25.45
1590.0	36.54	34.73	34.73	22.89	24.69	26.50
1650.0	40.01	36.84	36.19	23.33	25.20	27.12
1730.0	38.91	39.03	39.20	24.27	26.28	28.30
1790.0	36.32	37.70	38.85	24.88	26.97	28.91
1870.0	35.02	37.12	38.98	25.90	28.01	29.93
1930.0	32.35	34.23	35.98	26.41	28.55	30.45
2010.0	30.58	32.42	34.19	27.20	29.34	31.24
2070.0	32.12	33.63	34.99	28.18	30.28	32.09
2150.0	32.92	34.07	35.15	29.17	31.03	32.62
2210.0	30.19	31.73	33.10	29.77	31.49	32.94
2290.0	27.24	29.02	30.57	30.34	32.08	33.46
2350.0	25.63	27.10	28.44	31.32	33.14	34.40
2430.0	24.65	26.40	27.79	33.54	36.14	37.50
2490.0	23.00	24.84	26.50	37.18	39.71	40.47
2570.0	21.48	23.23	24.93	41.77	43.18	41.81
2630.0	20.94	22.30	23.73	41.96	42.15	40.63
2710.0	20.87	22.28	23.49	41.10	40.82	39.49
2770.0	20.57	22.09	23.18	39.29	38.51	37.48
2850.0	21.01	22.39	23.30	40.38	39.35	37.68
2910.0	21.64	22.88	23.56	40.07	39.62	37.96
2990.0	22.04	23.54	24.09	40.04	39.49	37.97
3050.0	22.49	24.19	24.64	40.17	39.80	37.71
3130.0	23.87	26.14	26.09	42.09	43.33	40.02
3190.0	24.48	26.40	26.35	43.36	44.02	40.80
3270.0	24.93	26.61	26.61	44.33	44.88	42.06
3330.0	25.69	27.20	27.42	43.80	44.79	42.17

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+7	+10	+13
600.0	630.0	11.57	12.34	12.91
660.0	690.0	10.20	10.77	11.00
720.0	750.0	8.66	8.84	9.06
780.0	810.0	7.87	8.04	8.29
860.0	890.0	7.48	7.58	7.61
920.0	950.0	7.62	7.69	7.74
1000.0	1030.0	8.54	8.29	8.20
1060.0	1090.0	9.67	9.60	9.54
1140.0	1170.0	10.99	10.78	10.35
1200.0	1230.0	11.21	10.99	10.58
1280.0	1310.0	10.86	10.64	10.49
1340.0	1370.0	10.45	10.26	10.23
1420.0	1450.0	10.39	10.23	10.21
1480.0	1510.0	10.44	10.36	10.37
1560.0	1590.0	11.35	11.26	11.25
1620.0	1650.0	12.25	12.25	12.29
1700.0	1730.0	13.23	13.51	13.63
1760.0	1790.0	14.11	14.49	14.72
1840.0	1870.0	15.22	15.69	16.07
1900.0	1930.0	16.51	16.88	17.23
1980.0	2010.0	18.15	18.49	18.65
2040.0	2070.0	17.80	17.92	17.97
2120.0	2150.0	18.89	19.01	19.10
2180.0	2210.0	20.71	20.82	20.96
2260.0	2290.0	22.99	23.21	23.39
2320.0	2350.0	24.39	24.52	24.63
2400.0	2430.0	24.89	25.00	25.01
2460.0	2490.0	24.70	24.75	24.83
2540.0	2570.0	23.24	23.01	22.90
2600.0	2630.0	21.86	21.62	21.41
2680.0	2710.0	19.50	19.53	19.53
2740.0	2770.0	17.78	17.84	17.85
2820.0	2850.0	15.95	16.11	16.11
2880.0	2910.0	14.93	15.08	15.15
2960.0	2990.0	13.86	14.13	14.22
3020.0	3050.0	13.00	13.45	13.68
3100.0	3130.0	12.09	12.56	12.87
3160.0	3190.0	11.63	11.96	12.27
3240.0	3270.0	11.18	11.44	11.68
3300.0	3330.0	10.89	11.17	11.37

# Frequency Mixer

# LRMS-25J+

## Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+7	+10	+13
600.0	630.0	10.13	9.48	8.95
660.0	690.0	7.83	7.47	7.11
720.0	750.0	5.74	5.58	5.63
780.0	810.0	4.59	4.56	4.63
860.0	890.0	3.48	3.43	3.45
920.0	950.0	2.80	2.74	2.68
1000.0	1030.0	2.30	2.32	2.32
1060.0	1090.0	1.96	1.89	1.86
1140.0	1170.0	1.49	1.43	1.36
1200.0	1230.0	1.17	1.15	1.15
1280.0	1310.0	1.13	1.17	1.19
1340.0	1370.0	1.38	1.45	1.44
1420.0	1450.0	1.70	1.79	1.80
1480.0	1510.0	1.97	2.09	2.11
1560.0	1590.0	2.23	2.43	2.52
1620.0	1650.0	2.13	2.36	2.48
1700.0	1730.0	2.19	2.34	2.44
1760.0	1790.0	2.25	2.25	2.30
1840.0	1870.0	2.39	2.24	2.18
1900.0	1930.0	2.37	2.23	2.14
1980.0	2010.0	1.95	1.76	1.67
2040.0	2070.0	2.50	2.36	2.29
2120.0	2150.0	4.55	4.17	3.92
2180.0	2210.0	4.62	4.18	3.91
2260.0	2290.0	3.96	3.60	3.37
2320.0	2350.0	3.50	3.24	3.09
2400.0	2430.0	2.86	2.60	2.47
2460.0	2490.0	2.50	2.26	2.12
2540.0	2570.0	1.98	1.81	1.72
2600.0	2630.0	1.67	1.54	1.49
2680.0	2710.0	1.55	1.49	1.46
2740.0	2770.0	1.64	1.66	1.66
2820.0	2850.0	2.00	2.16	2.19
2880.0	2910.0	2.48	2.75	2.81
2960.0	2990.0	2.94	3.30	3.50
3020.0	3050.0	3.45	3.70	3.91
3100.0	3130.0	4.45	4.51	4.64
3160.0	3190.0	5.27	5.17	5.17
3240.0	3270.0	6.35	6.17	6.09
3300.0	3330.0	7.47	7.22	7.08

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+7	+10	+13
630.0	2.92	1.92	1.65
690.0	2.66	1.81	1.64
750.0	2.47	1.73	1.63
810.0	2.41	1.67	1.62
890.0	2.20	1.56	1.58
950.0	2.09	1.51	1.57
1030.0	1.99	1.49	1.59
1090.0	1.93	1.49	1.63
1170.0	1.92	1.50	1.64
1230.0	1.89	1.51	1.66
1310.0	1.86	1.53	1.67
1370.0	1.87	1.51	1.63
1450.0	1.80	1.40	1.58
1510.0	1.77	1.37	1.59
1590.0	1.72	1.31	1.55
1650.0	1.73	1.26	1.52
1730.0	1.67	1.16	1.51
1790.0	1.63	1.09	1.50
1870.0	1.59	1.03	1.49
1930.0	1.60	1.03	1.49
2010.0	1.65	1.09	1.50
2070.0	1.69	1.15	1.50
2150.0	1.73	1.20	1.48
2210.0	1.79	1.23	1.49
2290.0	1.97	1.32	1.50
2350.0	2.09	1.43	1.50
2430.0	2.23	1.55	1.54
2490.0	2.43	1.65	1.58
2570.0	2.70	1.78	1.60
2630.0	2.79	1.86	1.61
2710.0	3.06	1.96	1.63
2770.0	3.58	2.14	1.67
2850.0	4.05	2.34	1.71
2910.0	4.09	2.41	1.74
2990.0	4.56	2.61	1.80
3050.0	5.39	2.89	1.88
3130.0	5.83	3.06	1.94
3190.0	5.81	3.07	1.95
3270.0	6.86	3.44	2.06
3330.0	7.47	3.73	2.17

IF (OUT) (MHz)	IF VSWR @LO=2500MHz (:1)		
	@LO (dBm)		
	+7	+10	+13
10.0	1.04	1.22	1.34
30.0	1.06	1.29	1.42
50.0	1.11	1.28	1.40
70.0	1.21	1.30	1.39
90.0	1.23	1.31	1.38
110.0	1.23	1.29	1.36
130.0	1.28	1.35	1.42
150.0	1.34	1.39	1.46
170.0	1.40	1.44	1.49
190.0	1.39	1.39	1.44
210.0	1.42	1.44	1.49
230.0	1.44	1.47	1.53
250.0	1.49	1.54	1.59
270.0	1.51	1.52	1.56
290.0	1.53	1.55	1.59
310.0	1.47	1.52	1.58
330.0	1.52	1.57	1.64
350.0	1.58	1.63	1.69
370.0	1.56	1.62	1.68
390.0	1.50	1.56	1.63
410.0	1.54	1.62	1.70
430.0	1.55	1.65	1.75
450.0	1.56	1.66	1.75
470.0	1.52	1.62	1.72
510.0	1.53	1.68	1.81
530.0	1.59	1.74	1.87
570.0	1.61	1.78	1.93
590.0	1.60	1.78	1.93
630.0	1.73	1.93	2.09
650.0	1.76	1.97	2.13
690.0	1.89	2.12	2.28
710.0	1.93	2.17	2.32
750.0	2.10	2.32	2.46
770.0	2.18	2.40	2.53
810.0	2.36	2.55	2.66
830.0	2.44	2.62	2.72
870.0	2.63	2.78	2.87
890.0	2.76	2.90	2.98
930.0	3.07	3.21	3.30
950.0	3.19	3.32	3.40

## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+0	16	19	28	27	26	20	54	42	59
1	-	7	+0	31	33	32	25	27	25	46	64	68
2	77	60	56	47	61	59	50	58	53	46	49	73
3	>90	67	>74	>74	62	73	>74	71	60	64	57	>74
4	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74	71
5	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
6	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
7	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
8	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
9	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
10	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 1625 MHz; -10.00 dBm.  
 LO IN: 1655 MHz; +10.00 dBm  
 IF OUT: 30 MHz; -15.67 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	10	27	32	36	38	31	35	67	55	56
1	-	7	+0	31	33	35	27	29	29	51	75	70
2	57	51	45	39	55	50	44	55	46	59	45	77
3	>90	43	54	59	36	57	58	51	45	47	45	62
4	>90	60	65	67	72	52	71	65	55	64	69	56
5	>90	67	64	>84	79	>84	57	70	74	67	58	59
6	>90	68	81	76	>84	83	>84	66	81	81	68	70
7	>90	>84	73	>84	78	78	>84	>84	71	79	>84	>84
8	>90	>84	78	75	83	83	>84	>84	>84	78	>84	>84
9	>90	>84	>84	>84	83	>84	>84	82	>84	>84	77	>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: 1625 MHz; 0.00 dBm.  
 LO IN: 1655 MHz; +10.00 dBm  
 IF OUT: 30 MHz; -5.86 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.