

Frequency Mixer

ADE-28

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)		
		@LO (dBm)		
		+4	+7	+10
1200.0	1230.0	12.65	11.93	11.43
1280.0	1310.0	10.96	10.34	9.94
1360.0	1390.0	9.54	9.06	8.75
1440.0	1470.0	8.26	7.88	7.67
1520.0	1550.0	7.20	6.91	6.76
1600.0	1630.0	6.40	6.18	6.05
1680.0	1710.0	5.89	5.68	5.57
1760.0	1790.0	5.65	5.44	5.30
1840.0	1870.0	5.55	5.32	5.19
1920.0	1950.0	5.53	5.30	5.18
2000.0	2030.0	5.65	5.48	5.44
2080.0	2110.0	5.70	5.41	5.31
2160.0	2190.0	5.69	5.40	5.34
2240.0	2270.0	6.52	5.91	5.61
2320.0	2350.0	6.27	5.38	4.98
2400.0	2430.0	5.99	5.27	4.95
2480.0	2510.0	5.83	5.17	4.81
2560.0	2590.0	5.81	5.17	4.81
2640.0	2670.0	5.91	5.29	4.89
2720.0	2750.0	6.00	5.39	5.02
2800.0	2830.0	6.12	5.58	5.21
2880.0	2910.0	6.16	5.72	5.42
2960.0	2990.0	6.31	5.94	5.68
3040.0	3070.0	6.47	6.07	5.86
3120.0	3150.0	6.74	6.31	6.09
3200.0	3230.0	7.12	6.66	6.45
3280.0	3310.0	7.61	7.20	7.02
3360.0	3390.0	8.11	7.73	7.54
3440.0	3470.0	8.49	8.22	8.04
3500.0	3530.0	8.53	8.33	8.21
3580.0	3610.0	8.98	8.78	8.68
3640.0	3670.0	9.44	9.25	9.18
3720.0	3750.0	9.67	9.54	9.51
3780.0	3810.0	9.78	9.69	9.69
3860.0	3890.0	10.12	10.13	10.19
3920.0	3950.0	10.36	10.39	10.47
4000.0	4030.0	10.42	10.42	10.50
4060.0	4090.0	10.56	10.53	10.60
4140.0	4170.0	11.23	11.15	11.21
4200.0	4230.0	11.76	11.69	11.75

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+4	+7	+10
1200.0	1230.0	13.50	14.94	15.99
1280.0	1310.0	10.60	11.35	12.05
1360.0	1390.0	8.58	8.84	9.59
1440.0	1470.0	6.41	6.97	7.56
1520.0	1550.0	4.58	5.25	5.99
1600.0	1630.0	3.94	4.64	5.48
1680.0	1710.0	3.87	4.57	5.41
1760.0	1790.0	4.44	5.33	6.24
1840.0	1870.0	5.39	7.14	8.44
1920.0	1950.0	6.45	10.25	12.49
2000.0	2030.0	6.49	9.92	13.18
2080.0	2110.0	6.14	8.23	11.13
2160.0	2190.0	11.70	13.26	15.18
2240.0	2270.0	8.47	24.10	12.87
2320.0	2350.0	4.39	5.61	6.66
2400.0	2430.0	3.65	5.23	6.66
2480.0	2510.0	3.48	5.14	6.75
2560.0	2590.0	3.58	5.11	6.65
2640.0	2670.0	3.37	5.02	6.37
2720.0	2750.0	3.48	5.35	6.89
2800.0	2830.0	3.46	5.18	6.94
2880.0	2910.0	4.04	5.67	7.31
2960.0	2990.0	4.70	6.05	7.64
3040.0	3070.0	5.34	6.97	8.57
3120.0	3150.0	6.28	8.68	11.29
3200.0	3230.0	6.96	10.51	13.63
3280.0	3310.0	7.83	11.33	14.14
3360.0	3390.0	8.45	11.68	14.79
3440.0	3470.0	9.30	11.82	14.50
3500.0	3530.0	10.23	11.48	13.90
3580.0	3610.0	12.01	12.19	14.23
3640.0	3670.0	13.48	13.10	14.81
3720.0	3750.0	15.00	14.21	15.31
3780.0	3810.0	16.32	14.43	14.99
3860.0	3890.0	19.04	16.18	15.86
3920.0	3950.0	19.60	17.77	16.75
4000.0	4030.0	18.37	18.69	16.78
4060.0	4090.0	16.23	19.00	16.73
4140.0	4170.0	17.38	21.04	17.03
4200.0	4230.0	18.75	21.82	18.11

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+1dBm (dB)		
		@LO (dBm)		
		+4	+7	+10
1200.0	1230.0	-0.23	-0.11	-0.04
1280.0	1310.0	0.28	0.32	0.35
1360.0	1390.0	0.97	0.87	0.73
1440.0	1470.0	1.48	1.26	1.06
1520.0	1550.0	1.85	1.53	1.27
1600.0	1630.0	2.04	1.60	1.31
1680.0	1710.0	2.12	1.65	1.33
1760.0	1790.0	2.14	1.68	1.38
1840.0	1870.0	2.04	1.56	1.27
1920.0	1950.0	1.87	1.33	1.08
2000.0	2030.0	1.55	0.96	0.71
2080.0	2110.0	1.04	0.61	0.40
2160.0	2190.0	1.51	1.03	0.69
2240.0	2270.0	2.33	2.07	1.79
2320.0	2350.0	2.70	2.49	2.18
2400.0	2430.0	2.58	2.42	2.19
2480.0	2510.0	2.38	2.17	1.95
2560.0	2590.0	2.18	1.88	1.66
2640.0	2670.0	2.12	1.74	1.52
2720.0	2750.0	2.09	1.64	1.37
2800.0	2830.0	1.94	1.48	1.20
2880.0	2910.0	1.82	1.36	1.08
2960.0	2990.0	1.62	1.19	0.92
3040.0	3070.0	1.40	0.99	0.79
3120.0	3150.0	1.13	0.77	0.61
3200.0	3230.0	0.92	0.60	0.47
3280.0	3310.0	0.61	0.40	0.32
3360.0	3390.0	0.40	0.29	0.24
3440.0	3470.0	0.28	0.22	0.20
3500.0	3530.0	0.30	0.21	0.20
3580.0	3610.0	0.23	0.18	0.16
3640.0	3670.0	0.18	0.15	0.15
3720.0	3750.0	0.17	0.14	0.13
3780.0	3810.0	0.18	0.14	0.14
3860.0	3890.0	0.17	0.11	0.11
3920.0	3950.0	0.15	0.09	0.08
4000.0	4030.0	0.16	0.08	0.08
4060.0	4090.0	0.19	0.09	0.09
4140.0	4170.0	0.15	0.09	0.09
4200.0	4230.0	0.12	0.07	0.07

Frequency Mixer

ADE-28

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2139.89MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1489.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2810.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
10.1	2150.0	5.7	10.1	1500.0	7.01	2510.1	300.0	10.59
70.1	2210.0	5.6	50.1	1540.0	7.26	2450.1	360.0	9.35
130.1	2270.0	6.1	90.1	1580.0	7.44	2390.1	420.0	8.31
190.1	2330.0	6.6	130.1	1620.0	7.64	2330.1	480.0	7.67
250.1	2390.0	6.8	170.1	1660.0	7.74	2270.1	540.0	7.17
310.1	2450.0	6.8	210.1	1700.0	7.68	2210.1	600.0	6.79
370.1	2510.0	6.8	250.1	1740.0	7.61	2150.1	660.0	6.50
430.1	2570.0	6.7	290.1	1780.0	7.48	2090.1	720.0	6.16
490.1	2630.0	6.5	330.1	1820.0	7.33	2030.1	780.0	5.94
550.1	2690.0	6.4	370.1	1860.0	7.12	1970.1	840.0	5.78
610.1	2750.0	6.2	410.1	1900.0	6.95	1910.1	900.0	5.57
670.1	2810.0	6.0	450.1	1940.0	7.04	1850.1	960.0	5.62
730.1	2870.0	5.8	490.1	1980.0	6.98	1790.1	1020.0	5.58
790.1	2930.0	5.6	530.1	2020.0	7.08	1730.1	1080.0	5.44
850.1	2990.0	5.5	570.1	2060.0	7.24	1670.1	1140.0	5.52
910.1	3050.0	5.4	610.1	2100.0	7.34	1610.1	1200.0	5.51
970.1	3110.0	5.3	650.1	2140.0	7.38	1550.1	1260.0	5.51
1030.1	3170.0	5.2	690.1	2180.0	7.40	1490.1	1320.0	5.51
1090.1	3230.0	5.1	730.1	2220.0	7.49	1430.1	1380.0	5.56
1150.1	3290.0	5.1	770.1	2260.0	7.48	1370.1	1440.0	5.55
1210.1	3350.0	5.2	810.1	2300.0	7.48	1310.1	1500.0	5.51
1270.1	3410.0	5.3	850.1	2340.0	7.50	1250.1	1560.0	5.44
1330.1	3470.0	5.3	890.1	2380.0	7.48	1190.1	1620.0	5.02
1390.1	3530.0	5.3	930.1	2420.0	7.48	1130.1	1680.0	4.52
1450.1	3590.0	5.3	970.1	2460.0	7.46	1050.1	1760.0	4.44
1510.1	3650.0	5.4	1010.1	2500.0	7.39	990.1	1820.0	4.57
1570.1	3710.0	5.5	1050.1	2540.0	7.41	910.1	1900.0	4.53
1630.1	3770.0	5.5	1090.1	2580.0	7.43	850.1	1960.0	4.55
1690.1	3830.0	5.7	1130.1	2620.0	7.49	770.1	2040.0	4.66
1750.1	3890.0	5.8	1170.1	2660.0	7.63	710.1	2100.0	4.86
1790.1	3930.0	5.9	1210.1	2700.0	7.83	630.1	2180.0	5.28
1850.1	3990.0	6.0	1250.1	2740.0	8.15	570.1	2240.0	5.32
1890.1	4030.0	6.0	1290.1	2780.0	8.62	490.1	2320.0	5.53
1950.1	4090.0	6.1	1330.1	2820.0	8.87	430.1	2380.0	5.53
1990.1	4130.0	6.2	1370.1	2860.0	9.12	350.1	2460.0	5.43
2050.1	4190.0	6.3	1390.1	2880.0	9.32	290.1	2520.0	5.57
2090.1	4230.0	6.3	1430.1	2920.0	9.77	210.1	2600.0	5.51
2150.1	4290.0	6.4	1450.1	2940.0	10.03	150.1	2660.0	5.53
2190.1	4330.0	6.6	1490.1	2980.0	10.58	70.1	2740.0	5.51
2250.1	4390.0	7.2	1510.1	3000.0	10.80	10.1	2800.0	5.51

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IF/RF MICROWAVE COMPONENTS

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)					@LO (dBm)		
	+4	+7	+10	+4	+7	+10			+4	+7	+10
1230.0	41.52	41.60	41.49	32.24	32.42	31.93	1200.0	1230.0	18.14	18.52	18.78
1310.0	39.77	40.37	40.67	33.31	32.90	31.96	1280.0	1310.0	17.32	17.53	17.80
1390.0	37.42	38.26	39.02	35.15	33.73	32.28	1360.0	1390.0	17.03	17.14	17.31
1470.0	35.45	36.61	37.48	35.69	34.21	32.84	1440.0	1470.0	16.78	16.64	16.52
1550.0	33.20	34.34	35.12	34.83	33.91	32.78	1520.0	1550.0	16.34	16.10	15.99
1630.0	31.72	32.94	33.72	32.94	31.77	30.87	1600.0	1630.0	15.94	15.80	15.75
1710.0	31.12	32.50	33.42	32.02	30.69	29.72	1680.0	1710.0	15.06	15.02	15.08
1790.0	30.49	31.68	32.59	30.93	29.88	28.98	1760.0	1790.0	14.53	14.45	14.44
1870.0	30.51	31.22	31.67	29.95	29.09	28.42	1840.0	1870.0	14.54	14.48	14.49
1950.0	31.28	31.58	31.82	29.12	28.11	27.66	1920.0	1950.0	14.44	14.40	14.24
2030.0	32.51	32.84	32.51	28.22	27.36	26.83	2000.0	2030.0	13.94	13.65	13.51
2110.0	32.63	33.70	33.84	27.39	26.87	26.45	2080.0	2110.0	13.22	12.78	12.47
2190.0	32.66	34.39	35.46	27.23	27.04	26.62	2160.0	2190.0	13.01	12.57	12.28
2270.0	33.08	35.03	35.73	27.36	27.27	27.05	2240.0	2270.0	13.91	13.89	13.80
2350.0	33.26	34.74	34.75	28.01	28.18	27.81	2320.0	2350.0	16.81	16.60	16.42
2430.0	33.07	34.19	34.47	28.97	29.34	28.85	2400.0	2430.0	16.75	16.81	16.72
2510.0	34.33	34.77	35.04	29.74	30.14	29.89	2480.0	2510.0	16.64	16.85	17.05
2590.0	36.44	37.78	37.84	30.46	30.91	30.61	2560.0	2590.0	17.16	17.48	17.89
2670.0	37.53	41.67	42.45	31.24	31.53	31.25	2640.0	2670.0	17.89	18.33	18.75
2750.0	36.75	44.67	57.15	31.84	32.12	31.57	2720.0	2750.0	19.13	19.73	20.11
2830.0	35.25	40.97	44.41	32.24	32.57	31.91	2800.0	2830.0	20.38	20.85	21.12
2910.0	33.50	37.24	37.76	32.63	32.89	32.21	2880.0	2910.0	21.22	21.33	21.21
2990.0	31.77	34.97	34.74	32.75	33.00	32.24	2960.0	2990.0	20.94	20.67	20.41
3070.0	29.77	33.12	33.99	32.76	32.80	32.30	3040.0	3070.0	19.74	19.18	18.88
3150.0	28.32	31.27	32.45	32.96	32.97	32.36	3120.0	3150.0	18.27	17.67	17.37
3230.0	27.21	29.63	30.57	32.97	32.96	31.92	3200.0	3230.0	16.84	16.31	16.07
3310.0	26.36	28.29	29.11	32.89	32.77	31.70	3280.0	3310.0	15.60	15.19	15.07
3390.0	25.72	27.36	28.20	32.72	32.52	31.51	3360.0	3390.0	14.63	14.39	14.26
3470.0	25.19	26.74	27.50	32.55	32.35	31.30	3440.0	3470.0	13.78	13.56	13.51
3530.0	24.74	26.39	27.18	32.58	32.48	31.32	3500.0	3530.0	13.43	13.15	13.09
3610.0	24.26	25.91	26.81	32.38	32.19	31.07	3580.0	3610.0	13.16	12.97	12.87
3670.0	24.13	25.76	26.63	32.14	31.85	30.71	3640.0	3670.0	12.98	12.82	12.75
3750.0	23.94	25.56	26.62	32.26	31.86	30.54	3720.0	3750.0	12.95	12.83	12.79
3810.0	23.82	25.56	26.73	32.49	31.99	30.70	3780.0	3810.0	13.05	12.98	12.93
3890.0	23.75	25.46	26.69	32.89	32.31	30.62	3860.0	3890.0	12.88	12.83	12.81
3950.0	23.96	25.67	26.94	32.78	32.24	30.59	3920.0	3950.0	13.06	13.07	13.02
4030.0	24.36	26.20	27.54	32.72	32.34	30.40	4000.0	4030.0	13.62	13.66	13.70
4090.0	24.68	26.60	28.02	32.65	32.29	30.19	4060.0	4090.0	14.18	14.25	14.28
4170.0	25.12	26.94	28.32	32.24	32.13	30.12	4140.0	4170.0	14.85	15.05	15.16
4230.0	25.36	26.90	27.97	31.64	32.18	30.72	4200.0	4230.0	15.41	15.64	15.69

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=2800MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
1200.0	1230.0	15.13	14.50	14.03	1230.0	2.34	3.19	4.24	10.0	2.39	2.01	1.75
1280.0	1310.0	11.93	11.38	10.89	1310.0	2.41	3.25	4.28	70.0	2.26	1.92	1.65
1360.0	1390.0	9.43	8.90	8.51	1390.0	2.50	3.33	4.35	130.0	2.29	1.94	1.68
1440.0	1470.0	7.20	6.73	6.35	1470.0	2.58	3.40	4.43	190.0	2.30	1.94	1.66
1520.0	1550.0	5.23	4.95	4.70	1550.0	2.72	3.54	4.59	250.0	2.41	2.04	1.75
1600.0	1630.0	3.79	3.65	3.56	1630.0	2.88	3.65	4.68	310.0	2.35	2.00	1.71
1680.0	1710.0	2.78	2.75	2.75	1710.0	3.08	3.76	4.73	350.0	2.40	2.03	1.73
1760.0	1790.0	2.20	2.23	2.27	1790.0	3.27	3.85	4.74	410.0	2.46	2.10	1.80
1840.0	1870.0	1.96	2.05	2.15	1870.0	3.51	3.93	4.73	450.0	2.53	2.16	1.84
1920.0	1950.0	1.95	2.18	2.32	1950.0	3.83	4.12	4.84	510.0	2.48	2.14	1.85
2000.0	2030.0	1.97	2.34	2.58	2030.0	4.08	4.31	4.96	550.0	2.53	2.20	1.90
2080.0	2110.0	1.64	1.98	2.26	2110.0	4.17	4.33	4.92	610.0	2.55	2.23	1.95
2160.0	2190.0	1.38	1.66	1.89	2190.0	4.28	4.32	4.84	650.0	2.54	2.23	1.97
2240.0	2270.0	1.32	1.21	1.17	2270.0	4.45	4.36	4.78	710.0	2.51	2.25	2.01
2320.0	2350.0	1.77	1.51	1.35	2350.0	4.62	4.39	4.73	750.0	2.49	2.25	2.03
2400.0	2430.0	1.88	1.67	1.56	2430.0	4.67	4.35	4.61	810.0	2.38	2.18	2.00
2480.0	2510.0	1.83	1.66	1.56	2510.0	4.64	4.27	4.46	850.0	2.35	2.17	2.01
2560.0	2590.0	1.76	1.62	1.53	2590.0	4.52	4.11	4.29	910.0	2.26	2.14	2.04
2640.0	2670.0	1.70	1.60	1.54	2670.0	4.46	3.96	4.11	950.0	2.23	2.14	2.07
2720.0	2750.0	1.68	1.63	1.61	2750.0	4.40	3.79	3.89	1010.0	2.12	2.06	2.04
2800.0	2830.0	1.70	1.74	1.76	2830.0	4.27	3.58	3.65	1050.0	2.13	2.11	2.11
2880.0	2910.0	1.83	1.93	1.99	2910.0	4.07	3.38	3.43	1110.0	2.23	2.22	2.24
2960.0	2990.0	2.04	2.18	2.28	2990.0	3.76	3.12	3.18	1150.0	2.32	2.34	2.39
3040.0	3070.0	2.31	2.48	2.58	3070.0	3.49	2.84	2.89	1210.0	2.51	2.63	2.72
3120.0	3150.0	2.65	2.84	2.95	3150.0	3.43	2.68	2.71	1250.0	2.62	2.80	2.92
3200.0	3230.0	3.01	3.20	3.28	3230.0	3.57	2.71	2.69	1310.0	2.84	3.10	3.27
3280.0	3310.0	3.44	3.63	3.70	3310.0	3.67	2.77	2.72	1350.0	2.94	3.30	3.47
3360.0	3390.0	3.91	4.11	4.18	3390.0	3.66	2.79	2.71	1410.0	3.16	3.66	3.97
3440.0	3470.0	4.21	4.44	4.51	3470.0	3.65	2.78	2.67	1450.0	3.14	3.73	4.11
3500.0	3530.0	4.20	4.44	4.55	3530.0	3.79	2.82	2.65	1510.0	3.18	3.88	4.46
3580.0	3610.0	4.59	4.83	4.95	3610.0	3.81	2.82	2.60	1550.0	3.07	3.79	4.42
3640.0	3670.0	4.95	5.20	5.36	3670.0	3.63	2.69	2.47	1610.0	2.95	3.62	4.28
3720.0	3750.0	5.19	5.46	5.59	3750.0	3.60	2.61	2.35	1650.0	2.81	3.45	4.09
3780.0	3810.0	5.44	5.74	5.91	3810.0	3.58	2.52	2.23	1710.0	2.75	3.32	3.94
3860.0	3890.0	5.91	6.26	6.49	3890.0	3.38	2.32	2.01	1750.0	2.59	3.10	3.67
3920.0	3950.0	6.17	6.49	6.76	3950.0	3.23	2.19	1.86	1810.0	2.41	2.85	3.35
4000.0	4030.0	6.63	6.89	7.14	4030.0	3.14	2.05	1.68	1850.0	2.26	2.67	3.13
4060.0	4090.0	7.20	7.41	7.63	4090.0	3.12	1.98	1.57	1910.0	2.13	2.51	2.91
4140.0	4170.0	8.01	8.08	8.23	4170.0	2.95	1.86	1.43	1950.0	2.00	2.35	2.73
4200.0	4230.0	8.20	8.23	8.31	4230.0	2.72	1.73	1.31	2010.0	1.94	2.29	2.66

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	15	16	4	24	3	43	33	46	38	49
1	-	22	0	37	19	43	40	45	49	59	49	59
2	60	64	45	56	45	63	60	75	51	76	64	81
3	65	78	75	73	62	77	71	83	77	80	85	83
4	75	81	85	87	89	92	80	89	85	92	99	86
5	73	92	92	94	86	83	89	90	89	89	87	87
6	97	79	83	83	95	82	86	96	85	88	95	89
7	111	80	88	92	89	92	84	86	98	93	88	84
8	103	80	84	81	90	84	79	95	90	83	83	89
9	100	76	100	86	83	93	91	89	84	100	86	111
10	95	69	74	79	84	91	87	79	91	90	83	90
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2150 MHz; -14 dBm
 LO IN: 2180 MHz; +7.00 dBm
 IF OUT: 30 MHz; -21.11 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	5	26	14	33	15	57	46	61	48	63
1	-	22	0	37	19	45	42	45	52	62	53	65
2	60	52	36	44	36	54	51	66	41	67	58	75
3	65	64	56	52	41	58	52	67	73	59	75	75
4	75	86	70	80	59	63	59	69	73	81	82	94
5	73	76	80	84	82	75	66	80	77	83	92	77
6	97	94	81	88	88	88	77	77	78	87	86	90
7	111	91	99	99	95	94	94	92	83	91	89	99
8	103	92	111	100	91	100	101	94	86	88	99	104
9	100	84	97	96	84	95	98	103	99	93	92	100
10	95	79	88	91	96	92	91	100	92	97	91	89
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2150 MHz; -4 dBm
 LO IN: 2180 MHz; +7.00 dBm
 IF OUT: 30 MHz; -11.11 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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