

Frequency Mixer

ADE-ED12873/4

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)		
		@LO (dBm)		
		+7	+10	+13
50.00	80.00	14.39	12.31	11.52
90.21	120.21	10.11	9.26	8.87
130.41	160.41	8.34	7.65	7.43
190.72	220.72	7.34	7.00	6.91
230.93	260.93	7.03	6.72	6.54
291.24	321.24	6.64	6.45	6.33
331.44	361.44	6.60	6.37	6.26
391.75	421.75	6.42	6.24	6.13
431.96	461.96	6.40	6.19	6.05
492.27	522.27	6.32	6.11	5.98
532.47	562.47	6.42	6.20	6.05
592.78	622.78	6.36	6.11	5.96
632.99	662.99	6.45	6.19	6.05
693.30	723.30	6.59	6.27	6.07
733.51	763.51	6.76	6.44	6.21
793.81	823.81	6.77	6.47	6.22
834.02	864.02	6.78	6.44	6.20
894.33	924.33	6.78	6.42	6.18
934.54	964.54	6.74	6.37	6.14
994.85	1024.85	6.83	6.40	6.13
1035.05	1065.05	6.90	6.44	6.16
1095.36	1125.36	7.09	6.50	6.20
1135.57	1165.57	7.31	6.64	6.26
1195.88	1225.88	7.75	7.00	6.51
1236.08	1266.08	7.97	7.26	6.69
1296.39	1326.39	8.12	7.48	6.88
1336.60	1366.60	8.29	7.65	7.02
1396.91	1426.91	8.33	7.65	7.03
1437.11	1467.11	8.25	7.51	6.92
1497.42	1527.42	8.11	7.41	6.95
1537.63	1567.63	8.01	7.37	6.95
1597.94	1627.94	8.15	7.53	7.16
1638.14	1668.14	8.22	7.63	7.29
1698.45	1728.45	8.64	8.11	7.77
1738.66	1768.66	8.96	8.51	8.18
1798.97	1828.97	9.41	9.04	8.75
1839.18	1869.18	9.73	9.40	9.16
1899.48	1929.48	9.87	9.61	9.39
1939.69	1969.69	10.23	9.97	9.78
2000.00	2030.00	10.35	10.10	9.93

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+7	+10	+13
50.00	80.00	12.27	17.44	20.28
90.21	120.21	15.26	16.74	16.84
130.41	160.41	15.13	15.82	16.43
190.72	220.72	14.88	15.66	19.54
230.93	260.93	14.13	16.75	22.09
291.24	321.24	16.35	21.29	21.22
331.44	361.44	16.48	22.04	19.33
391.75	421.75	19.07	17.49	18.66
431.96	461.96	17.86	16.93	17.36
492.27	522.27	14.63	16.21	19.30
532.47	562.47	13.85	13.89	16.10
592.78	622.78	15.79	16.44	19.08
632.99	662.99	14.91	17.81	22.56
693.30	723.30	11.23	13.91	18.30
733.51	763.51	10.90	12.10	15.42
793.81	823.81	13.57	14.50	16.29
834.02	864.02	14.92	16.39	19.06
894.33	924.33	18.28	20.60	22.28
934.54	964.54	19.91	20.02	18.67
994.85	1024.85	15.76	21.87	18.25
1035.05	1065.05	12.85	20.18	18.85
1095.36	1125.36	9.79	16.44	21.54
1135.57	1165.57	8.33	13.49	21.51
1195.88	1225.88	6.77	10.30	15.50
1236.08	1266.08	6.41	8.95	12.92
1296.39	1326.39	7.40	8.97	13.15
1336.60	1366.60	7.98	9.33	12.84
1396.91	1426.91	8.80	10.80	13.96
1437.11	1467.11	8.24	10.35	12.48
1497.42	1527.42	8.27	10.35	11.57
1537.63	1567.63	8.56	10.52	11.50
1597.94	1627.94	8.90	10.54	11.85
1638.14	1668.14	8.79	10.67	12.05
1698.45	1728.45	9.75	11.39	12.84
1738.66	1768.66	10.19	12.00	13.40
1798.97	1828.97	11.26	12.70	13.93
1839.18	1869.18	11.99	13.55	14.47
1899.48	1929.48	13.96	14.36	15.25
1939.69	1969.69	15.00	15.84	16.21
2000.00	2030.00	15.18	17.57	17.97

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+5dBm (dB)		
		@LO (dBm)		
		+7	+10	+13
50.00	80.00	0.73	0.06	0.05
90.21	120.21	0.04	-0.01	0.01
130.41	160.41	-0.31	-0.16	-0.07
190.72	220.72	-0.51	-0.30	-0.12
230.93	260.93	-0.65	-0.38	-0.19
291.24	321.24	-0.74	-0.41	-0.25
331.44	361.44	-0.73	-0.42	-0.26
391.75	421.75	-0.73	-0.45	-0.29
431.96	461.96	-0.72	-0.44	-0.30
492.27	522.27	-0.77	-0.51	-0.37
532.47	562.47	-0.74	-0.50	-0.36
592.78	622.78	-0.87	-0.60	-0.45
632.99	662.99	-0.91	-0.64	-0.45
693.30	723.30	-0.95	-0.72	-0.55
733.51	763.51	-0.93	-0.73	-0.58
793.81	823.81	-1.07	-0.83	-0.69
834.02	864.02	-1.19	-0.92	-0.76
894.33	924.33	-1.36	-1.09	-0.90
934.54	964.54	-1.53	-1.25	-1.06
994.85	1024.85	-1.63	-1.36	-1.15
1035.05	1065.05	-1.75	-1.46	-1.22
1095.36	1125.36	-1.76	-1.54	-1.27
1135.57	1165.57	-1.70	-1.56	-1.30
1195.88	1225.88	-1.49	-1.41	-1.22
1236.08	1266.08	-1.46	-1.36	-1.23
1296.39	1326.39	-1.54	-1.39	-1.27
1336.60	1366.60	-1.48	-1.34	-1.25
1396.91	1426.91	-1.54	-1.40	-1.31
1437.11	1467.11	-1.65	-1.54	-1.44
1497.42	1527.42	-1.79	-1.66	-1.48
1537.63	1567.63	-1.97	-1.78	-1.56
1597.94	1627.94	-1.92	-1.73	-1.52
1638.14	1668.14	-1.92	-1.74	-1.56
1698.45	1728.45	-1.60	-1.48	-1.35
1738.66	1768.66	-1.41	-1.26	-1.16
1798.97	1828.97	-1.06	-0.88	-0.78
1839.18	1869.18	-0.83	-0.63	-0.51
1899.48	1929.48	-0.62	-0.40	-0.29
1939.69	1969.69	-0.45	-0.25	-0.18
2000.00	2030.00	-0.33	-0.17	-0.12

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Frequency Mixer

ADE-ED12873/4

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1010.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=189.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1210.9MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+10			+10			+10
210.10	800.00	6.60	10.10	200.00	7.08	1010.10	200.00	6.52
205.10	805.00	6.56	30.10	220.00	7.02	990.10	220.00	6.59
200.10	810.00	6.56	50.10	240.00	7.07	970.10	240.00	6.58
195.10	815.00	6.58	70.10	260.00	6.96	950.10	260.00	6.59
190.10	820.00	6.54	90.10	280.00	7.09	930.10	280.00	6.55
185.10	825.00	6.51	110.10	300.00	7.13	910.10	300.00	6.46
180.10	830.00	6.53	130.10	320.00	7.08	890.10	320.00	6.59
175.10	835.00	6.57	150.10	340.00	7.18	870.10	340.00	6.63
170.10	840.00	6.57	170.10	360.00	7.19	850.10	360.00	6.70
165.10	845.00	6.52	190.10	380.00	7.17	830.10	380.00	6.69
160.10	850.00	6.52	210.10	400.00	7.18	810.10	400.00	6.71
155.10	855.00	6.53	230.10	420.00	7.18	790.10	420.00	6.64
150.10	860.00	6.53	250.10	440.00	7.20	770.10	440.00	6.64
145.10	865.00	6.47	270.10	460.00	7.19	750.10	460.00	6.61
140.10	870.00	6.44	290.10	480.00	7.20	730.10	480.00	6.56
135.10	875.00	6.46	310.10	500.00	7.24	710.10	500.00	6.51
130.10	880.00	6.46	330.10	520.00	7.23	690.10	520.00	6.40
125.10	885.00	6.43	350.10	540.00	7.30	670.10	540.00	6.33
120.10	890.00	6.39	390.10	580.00	7.35	630.10	580.00	5.96
115.10	895.00	6.40	410.10	600.00	7.34	610.10	600.00	5.74
110.10	900.00	6.41	450.10	640.00	7.30	570.10	640.00	6.15
105.10	905.00	6.37	470.10	660.00	7.32	550.10	660.00	6.35
100.10	910.00	6.30	510.10	700.00	7.36	510.10	700.00	6.51
95.10	915.00	6.31	530.10	720.00	7.56	490.10	720.00	6.58
90.10	920.00	6.34	570.10	760.00	7.59	450.10	760.00	6.69
85.10	925.00	6.33	590.10	780.00	7.66	430.10	780.00	6.77
80.10	930.00	6.30	630.10	820.00	7.86	390.10	820.00	6.60
75.10	935.00	6.28	650.10	840.00	7.90	370.10	840.00	6.64
70.10	940.00	6.33	690.10	880.00	7.92	330.10	880.00	6.50
65.10	945.00	6.37	710.10	900.00	7.90	310.10	900.00	6.44
60.10	950.00	6.32	750.10	940.00	7.94	270.10	940.00	6.31
55.10	955.00	6.30	770.10	960.00	7.97	250.10	960.00	6.30
50.10	960.00	6.30	810.10	1000.00	7.95	210.10	1000.00	6.24
45.10	965.00	6.32	830.10	1020.00	7.94	190.10	1020.00	6.20
40.10	970.00	6.31	870.10	1060.00	7.82	150.10	1060.00	6.25
35.10	975.00	6.30	890.10	1080.00	7.80	130.10	1080.00	6.34
30.10	980.00	6.33	930.10	1120.00	7.71	90.10	1120.00	6.38
25.10	985.00	6.40	950.10	1140.00	7.66	70.10	1140.00	6.48
15.10	995.00	6.43	990.10	1180.00	7.61	30.10	1180.00	6.73
10.10	1000.00	6.48	1010.10	1200.00	7.63	10.10	1200.00	6.93

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+7	+10	+13	+7	+10	+13
80.00	67.79	67.13	64.85	58.14	48.41	44.84
120.21	60.84	59.58	58.24	48.74	45.91	44.11
160.41	55.51	54.59	54.10	46.74	44.49	43.11
220.72	50.69	50.62	50.73	45.51	43.59	42.29
260.93	48.84	49.05	49.03	45.34	43.54	41.83
321.24	46.82	47.15	47.39	45.97	43.59	41.44
361.44	45.95	46.19	46.18	46.62	43.53	40.68
421.75	44.60	45.07	45.19	46.35	42.79	39.89
461.96	43.74	44.03	44.09	44.81	42.11	39.56
522.27	43.20	43.64	43.78	42.29	40.26	37.89
562.47	42.78	43.05	43.19	40.24	39.91	38.15
622.78	42.13	42.54	42.65	37.36	37.39	36.63
662.99	41.74	42.06	42.06	36.13	36.09	35.32
723.30	41.44	41.77	41.77	34.58	35.79	35.64
763.51	41.23	41.51	41.48	33.18	34.44	35.10
823.81	41.15	41.27	41.29	32.08	32.97	33.72
864.02	41.27	41.24	41.07	31.14	31.75	32.31
924.33	41.09	40.57	40.25	30.84	30.76	30.74
964.54	41.34	40.68	40.14	30.83	31.06	30.81
1024.85	42.33	41.22	40.27	29.98	31.23	31.32
1065.05	42.17	41.30	40.43	28.68	30.42	31.11
1125.36	41.48	40.88	40.12	27.39	29.34	30.49
1165.57	41.53	41.02	40.11	26.58	28.57	29.90
1225.88	41.35	41.05	40.33	25.78	27.79	29.59
1266.08	41.48	41.13	40.53	25.21	27.13	29.16
1326.39	41.56	41.31	40.85	24.57	26.25	28.29
1366.60	41.84	41.69	41.22	24.00	25.54	27.29
1426.91	41.72	41.49	40.76	23.97	25.26	26.51
1467.11	41.83	41.46	40.48	24.32	25.59	26.59
1527.42	42.53	41.81	40.62	25.14	26.53	27.43
1567.63	42.59	41.91	40.81	25.33	26.88	27.94
1627.94	42.96	43.24	42.52	25.40	27.38	29.13
1668.14	42.12	43.62	43.29	24.79	27.09	29.24
1728.45	40.49	43.68	44.93	24.05	26.69	29.32
1768.66	39.61	43.45	46.09	23.56	26.27	28.99
1828.97	38.67	42.84	46.76	23.62	26.36	29.16
1869.18	38.05	42.18	46.53	23.53	26.21	29.01
1929.48	37.53	41.47	45.67	23.92	26.61	29.34
1969.69	36.96	40.60	44.29	23.91	26.55	29.21
2030.00	36.56	39.98	43.09	24.55	27.10	29.63

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+7	+10	+13
50.00	80.00	43.89	43.15	42.92
60.21	120.21	41.23	40.97	41.01
130.41	160.41	39.40	40.04	40.52
190.72	220.72	39.52	40.82	42.03
230.93	260.93	38.08	39.74	40.79
291.24	321.24	38.28	40.13	41.39
331.44	361.44	37.91	39.38	39.58
391.75	421.75	38.16	38.81	39.35
431.96	461.96	38.23	38.97	39.05
492.27	522.27	35.27	35.64	35.36
532.47	562.47	34.08	34.29	33.70
592.78	622.78	32.41	32.25	31.52
632.99	662.99	31.32	31.45	31.11
693.30	723.30	30.91	30.92	30.59
733.51	763.51	30.72	30.33	29.69
793.81	823.81	31.21	30.41	29.31
834.02	864.02	30.82	29.82	28.45
894.33	924.33	28.89	27.78	26.95
934.54	964.54	27.82	26.78	26.02
994.85	1024.85	26.36	25.53	24.72
1035.05	1065.05	25.80	24.81	24.06
1095.36	1125.36	25.51	24.47	23.62
1135.57	1165.57	25.56	24.28	23.23
1195.88	1225.88	25.68	24.16	22.89
1236.08	1266.08	26.06	24.39	22.96
1296.39	1326.39	27.50	25.70	23.70
1336.60	1366.60	27.76	26.06	23.95
1396.91	1426.91	28.29	25.96	23.70
1437.11	1467.11	26.56	24.34	22.37
1497.42	1527.42	22.59	20.94	19.75
1537.63	1567.63	20.69	19.37	18.37
1597.94	1627.94	18.17	17.18	16.48
1638.14	1668.14	16.90	16.07	15.47
1698.45	1728.45	15.17	14.58	14.13
1738.66	1768.66	14.22	13.61	13.25
1798.97	1828.97	12.96	12.39	12.06
1839.18	1869.18	12.37	11.80	11.42
1899.48	1929.48	11.55	10.94	10.60
1939.69	1969.69	11.03	10.46	10.00
2000.00	2030.00	10.42	9.74	9.37

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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=1000MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+7	+10	+13		+7	+10	+13		+7	+10	+13
50.00	80.00	13.70	13.09	11.46	80.00	15.96	10.89	7.83	10.00	1.78	1.49	1.32
90.21	120.21	5.23	4.64	4.64	120.21	5.41	4.43	4.46	14.75	1.75	1.47	1.30
130.41	160.41	3.58	3.37	3.21	160.41	3.37	3.36	3.90	19.50	1.74	1.46	1.29
190.72	220.72	2.43	2.38	2.34	220.72	2.53	2.84	3.54	24.25	1.75	1.47	1.30
230.93	260.93	2.15	2.12	2.11	260.93	2.30	2.75	3.54	29.00	1.78	1.50	1.33
291.24	321.24	1.87	1.86	1.87	321.24	2.04	2.58	3.40	33.75	1.82	1.54	1.36
331.44	361.44	1.77	1.76	1.76	361.44	1.97	2.57	3.42	38.50	1.85	1.56	1.37
391.75	421.75	1.67	1.67	1.68	421.75	1.85	2.50	3.36	43.25	1.86	1.56	1.39
431.96	461.96	1.61	1.61	1.62	461.96	1.82	2.50	3.37	48.00	1.85	1.56	1.38
492.27	522.27	1.56	1.57	1.58	522.27	1.78	2.49	3.37	52.75	1.82	1.54	1.36
532.47	562.47	1.51	1.52	1.53	562.47	1.77	2.49	3.37	57.50	1.79	1.51	1.33
592.78	622.78	1.50	1.51	1.52	622.78	1.77	2.50	3.38	62.25	1.77	1.49	1.31
632.99	662.99	1.46	1.47	1.48	662.99	1.76	2.48	3.35	67.00	1.77	1.49	1.31
693.30	723.30	1.46	1.47	1.48	723.30	1.78	2.52	3.38	71.75	1.78	1.50	1.33
733.51	763.51	1.44	1.44	1.44	763.51	1.79	2.52	3.38	76.50	1.80	1.52	1.34
793.81	823.81	1.44	1.44	1.44	823.81	1.83	2.58	3.45	81.25	1.81	1.54	1.35
834.02	864.02	1.42	1.42	1.42	864.02	1.85	2.58	3.43	86.00	1.82	1.54	1.36
894.33	924.33	1.39	1.40	1.40	924.33	1.89	2.63	3.50	90.75	1.81	1.54	1.36
934.54	964.54	1.36	1.35	1.36	964.54	1.92	2.66	3.52	95.50	1.79	1.51	1.34
994.85	1024.85	1.33	1.33	1.35	1024.85	2.01	2.77	3.66	100.25	1.77	1.50	1.32
1035.05	1065.05	1.30	1.29	1.31	1065.05	2.07	2.83	3.73	105.00	1.76	1.49	1.31
1095.36	1125.36	1.25	1.26	1.30	1125.36	2.19	2.98	3.90	109.75	1.77	1.50	1.33
1135.57	1165.57	1.22	1.22	1.26	1165.57	2.27	3.07	3.99	114.50	1.80	1.52	1.35
1195.88	1225.88	1.16	1.19	1.25	1225.88	2.39	3.21	4.16	119.25	1.85	1.55	1.37
1236.08	1266.08	1.13	1.14	1.20	1266.08	2.47	3.31	4.27	124.00	1.88	1.58	1.40
1296.39	1326.39	1.06	1.12	1.20	1326.39	2.57	3.43	4.43	128.75	1.89	1.59	1.41
1336.60	1366.60	1.02	1.09	1.17	1366.60	2.63	3.49	4.47	133.50	1.89	1.59	1.41
1396.91	1426.91	1.18	1.24	1.31	1426.91	2.70	3.56	4.56	138.25	1.87	1.57	1.39
1437.11	1467.11	1.30	1.34	1.41	1467.11	2.73	3.58	4.57	143.00	1.84	1.55	1.37
1497.42	1527.42	1.59	1.64	1.69	1527.42	2.77	3.63	4.64	147.75	1.82	1.53	1.36
1537.63	1567.63	1.77	1.80	1.84	1567.63	2.80	3.67	4.68	152.50	1.81	1.53	1.35
1597.94	1627.94	2.18	2.19	2.21	1627.94	2.91	3.78	4.80	157.25	1.82	1.54	1.36
1638.14	1668.14	2.40	2.40	2.39	1668.14	2.99	3.83	4.84	162.00	1.85	1.56	1.38
1698.45	1728.45	2.92	2.88	2.86	1728.45	3.11	3.95	4.96	166.75	1.87	1.58	1.40
1738.66	1768.66	3.18	3.13	3.09	1768.66	3.20	4.01	4.99	171.50	1.88	1.59	1.41
1798.97	1828.97	3.70	3.65	3.61	1828.97	3.41	4.18	5.14	176.25	1.88	1.59	1.41
1839.18	1869.18	3.86	3.84	3.81	1869.18	3.56	4.26	5.17	181.00	1.85	1.57	1.39
1899.48	1929.48	4.25	4.24	4.21	1929.48	3.85	4.48	5.38	185.75	1.83	1.55	1.37
1939.69	1969.69	4.38	4.36	4.33	1969.69	4.02	4.56	5.38	195.25	1.83	1.54	1.37
2000.00	2030.00	4.64	4.60	4.55	2030.00	4.36	4.82	5.61	200.00	1.86	1.57	1.40

Harmonics Tables

RF HARMONICS ORDER	(-dBm)											
	(-dBc)											
0	-	-	7	20	10	32	27	29	16	29	39	56
1	-	23	+0	25	11	36	20	38	43	32	43	43
2	79	59	43	58	44	58	42	60	66	60	52	54
3	> 90	62	62	62	62	71	57	65	64	> 74	68	68
4	> 90	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74
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: 650.00 MHz; -10.00 dBm.
 LO IN: 680.00 MHz; +10.00 dBm
 IF OUT: 30.00 MHz; -16.42 dBm

RF HARMONICS ORDER	(-dBm)											
	(-dBc)											
0	-	-	15	30	23	44	35	40	28	42	58	67
1	-	24	+0	25	11	43	21	42	41	39	49	51
2	60	50	36	53	34	50	35	54	63	69	43	54
3	> 90	44	40	42	54	46	39	45	52	60	62	48
4	> 90	69	61	58	54	56	51	53	49	66	72	60
5	> 90	67	66	58	53	71	53	63	52	63	57	74
6	> 90	> 84	79	> 84	68	72	67	74	60	63	62	74
7	> 90	78	> 84	82	72	72	77	73	> 84	69	74	70
8	> 90	> 84	83	> 84	> 84	> 84	82	79	76	76	71	70
9	> 90	> 84	> 84	84	> 84	> 84	80	76	76	> 84	79	> 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: 650.00 MHz; .00 dBm
 LO IN: 680.00 MHz; +10.00 dBm
 IF OUT: 30.00 MHz; -6.45 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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