

Frequency Mixer

TUF-ED12916/2

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	6.35	5.84	5.61
50.1	80.1	6.56	6.13	5.83
90.1	120.1	6.45	6.07	5.86
130.1	160.1	6.46	6.04	5.84
170.1	200.1	6.43	6.03	5.83
210.1	240.1	6.38	6.00	5.82
250.1	280.1	6.39	6.03	5.85
290.1	320.1	6.31	6.00	5.85
330.1	360.1	6.34	6.02	5.85
370.1	400.1	6.32	6.02	5.87
410.1	440.1	6.36	6.07	5.92
450.1	480.1	6.40	6.09	5.93
490.1	520.1	6.40	6.11	5.94
530.1	560.1	6.47	6.16	5.98
570.1	600.1	6.51	6.23	6.06
610.1	640.1	6.55	6.28	6.12
650.1	680.1	6.65	6.36	6.21
690.1	720.1	6.70	6.43	6.29
730.1	760.1	6.84	6.57	6.41
770.1	800.1	6.98	6.69	6.50
810.1	840.1	7.09	6.79	6.57
850.1	880.1	7.20	6.88	6.66
890.1	920.1	7.30	6.97	6.76
930.1	960.1	7.40	7.03	6.81
970.1	1000.1	7.47	7.04	6.81
990.1	1020.1	7.49	7.04	6.80
1030.1	1060.1	7.60	7.10	6.85
1050.1	1080.1	7.67	7.14	6.88
1090.1	1120.1	7.87	7.27	6.98
1110.1	1140.1	7.96	7.35	7.04
1150.1	1180.1	8.19	7.53	7.18
1170.1	1200.1	8.35	7.66	7.29
1210.1	1240.1	8.62	7.89	7.49
1230.1	1260.1	8.75	8.03	7.60
1270.1	1300.1	9.11	8.33	7.87
1290.1	1320.1	9.33	8.55	8.03
1330.1	1360.1	9.72	8.90	8.37
1350.1	1380.1	9.99	9.18	8.60
1390.1	1420.1	10.58	9.79	9.15
1410.1	1440.1	10.88	10.14	9.50

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	15.59	16.30	17.53
50.1	80.1	17.24	18.31	19.24
90.1	120.1	14.64	15.81	18.29
130.1	160.1	15.29	19.49	21.75
170.1	200.1	15.28	18.86	18.56
210.1	240.1	15.08	18.68	20.71
250.1	280.1	15.96	15.98	18.42
290.1	320.1	15.34	16.63	21.06
330.1	360.1	15.27	18.08	22.50
370.1	400.1	13.22	15.99	19.85
410.1	440.1	13.31	16.44	20.45
450.1	480.1	12.19	15.16	19.34
490.1	520.1	13.13	16.17	18.83
530.1	560.1	13.99	19.00	21.70
570.1	600.1	13.56	17.10	19.19
610.1	640.1	12.90	15.68	18.95
650.1	680.1	12.19	14.01	15.79
690.1	720.1	11.75	14.38	16.86
730.1	760.1	10.76	14.23	18.86
770.1	800.1	9.97	13.44	19.54
810.1	840.1	9.34	12.41	18.40
850.1	880.1	8.92	10.92	14.00
890.1	920.1	8.32	9.70	11.54
930.1	960.1	9.22	11.43	14.42
970.1	1000.1	10.67	14.94	19.85
990.1	1020.1	12.21	17.74	15.94
1030.1	1060.1	12.86	15.98	14.09
1050.1	1080.1	13.59	14.58	13.30
1090.1	1120.1	13.44	14.68	13.54
1110.1	1140.1	15.82	14.10	13.05
1150.1	1180.1	15.16	14.64	13.34
1170.1	1200.1	16.70	14.53	12.97
1210.1	1240.1	17.76	16.03	13.96
1230.1	1260.1	22.38	15.23	13.72
1270.1	1300.1	20.26	14.81	13.87
1290.1	1320.1	18.52	14.64	13.85
1330.1	1360.1	14.90	13.66	13.28
1350.1	1380.1	13.33	13.05	12.96
1390.1	1420.1	12.12	12.38	12.66
1410.1	1440.1	11.84	12.18	12.59

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+1dBm (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	1.31	1.02	0.78
50.1	80.1	1.13	0.92	0.68
90.1	120.1	1.08	0.91	0.67
130.1	160.1	1.12	0.86	0.64
170.1	200.1	1.17	0.87	0.67
210.1	240.1	1.10	0.84	0.63
250.1	280.1	1.18	0.83	0.62
290.1	320.1	1.15	0.79	0.59
330.1	360.1	1.08	0.77	0.60
370.1	400.1	1.11	0.76	0.58
410.1	440.1	1.06	0.73	0.54
450.1	480.1	1.02	0.73	0.53
490.1	520.1	0.97	0.72	0.53
530.1	560.1	1.02	0.72	0.55
570.1	600.1	1.09	0.77	0.59
610.1	640.1	1.14	0.83	0.62
650.1	680.1	1.25	0.90	0.68
690.1	720.1	1.27	0.91	0.68
730.1	760.1	1.38	1.01	0.76
770.1	800.1	1.44	1.09	0.84
810.1	840.1	1.52	1.17	0.93
850.1	880.1	1.64	1.29	1.03
890.1	920.1	1.67	1.28	1.03
930.1	960.1	1.72	1.34	1.07
970.1	1000.1	1.75	1.44	1.15
990.1	1020.1	1.76	1.47	1.18
1030.1	1060.1	1.80	1.43	1.15
1050.1	1080.1	1.78	1.46	1.16
1090.1	1120.1	1.72	1.39	1.11
1110.1	1140.1	1.67	1.36	1.07
1150.1	1180.1	1.57	1.31	1.04
1170.1	1200.1	1.51	1.27	1.02
1210.1	1240.1	1.39	1.22	0.97
1230.1	1260.1	1.33	1.17	0.95
1270.1	1300.1	1.25	1.16	0.99
1290.1	1320.1	1.17	1.12	0.99
1330.1	1360.1	1.04	1.11	1.03
1350.1	1380.1	1.01	1.09	1.06
1390.1	1420.1	0.80	0.95	1.02
1410.1	1440.1	0.68	0.84	0.96

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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)=510.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=39.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1010.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
490.1	20.0	6.30	10.1	50.0	6.46	990.1	20.0	8.08
478.1	32.0	6.21	70.1	110.0	6.15	970.1	40.0	7.99
466.1	44.0	6.20	130.1	170.0	6.11	950.1	60.0	7.97
454.1	56.0	6.21	190.1	230.0	6.27	930.1	80.0	8.07
442.1	68.0	6.12	250.1	290.0	6.15	910.1	100.0	7.96
430.1	80.0	6.12	310.1	350.0	6.19	890.1	120.0	7.97
418.1	92.0	6.12	350.1	390.0	6.19	870.1	140.0	7.82
406.1	104.0	6.12	410.1	450.0	6.15	850.1	160.0	7.81
394.1	116.0	6.05	450.1	490.0	6.11	830.1	180.0	7.82
382.1	128.0	5.98	510.1	550.0	6.32	810.1	200.0	7.80
370.1	140.0	5.98	550.1	590.0	6.29	790.1	220.0	7.75
358.1	152.0	6.01	610.1	650.0	6.41	770.1	240.0	7.72
346.1	164.0	5.99	650.1	690.0	6.46	750.1	260.0	7.69
334.1	176.0	6.02	710.1	750.0	6.52	730.1	280.0	7.71
322.1	188.0	6.02	750.1	790.0	6.47	710.1	300.0	7.70
310.1	200.0	6.00	810.1	850.0	6.46	690.1	320.0	7.70
298.1	212.0	5.99	850.1	890.0	6.38	670.1	340.0	7.69
286.1	224.0	6.01	910.1	950.0	6.20	650.1	360.0	7.69
274.1	236.0	6.00	950.1	990.0	6.20	630.1	380.0	7.71
262.1	248.0	6.02	1010.1	1050.0	6.10	610.1	400.0	7.68
250.1	260.0	6.03	1050.1	1090.0	6.13	570.1	440.0	7.65
238.1	272.0	6.01	1110.1	1150.0	6.22	550.1	460.0	7.63
226.1	284.0	6.03	1150.1	1190.0	6.31	510.1	500.0	7.63
214.1	296.0	6.03	1210.1	1250.0	6.29	490.1	520.0	7.63
202.1	308.0	6.05	1250.1	1290.0	6.33	450.1	560.0	7.56
190.1	320.0	6.05	1310.1	1350.0	6.27	430.1	580.0	7.51
178.1	332.0	6.03	1350.1	1390.0	6.30	390.1	620.0	7.53
166.1	344.0	6.05	1410.1	1450.0	6.46	370.1	640.0	7.53
154.1	356.0	6.07	1450.1	1490.0	6.69	330.1	680.0	7.50
142.1	368.0	6.08	1510.1	1550.0	6.82	310.1	700.0	7.48
130.1	380.0	6.09	1550.1	1590.0	6.89	270.1	740.0	7.43
118.1	392.0	6.09	1610.1	1650.0	7.13	250.1	760.0	7.38
106.1	404.0	6.11	1650.1	1690.0	7.42	210.1	800.0	7.34
94.1	416.0	6.08	1710.1	1750.0	7.90	190.1	820.0	7.32
82.1	428.0	6.13	1750.1	1790.0	8.09	150.1	860.0	7.42
70.1	440.0	6.14	1810.1	1850.0	8.68	130.1	880.0	7.44
58.1	452.0	6.15	1850.1	1890.0	8.92	90.1	920.0	7.47
46.1	464.0	6.17	1910.1	1950.0	9.61	70.1	940.0	7.44
22.1	488.0	6.15	1950.1	1990.0	9.90	30.1	980.0	7.28
10.1	500.0	6.48	2010.1	2050.0	10.48	10.1	1000.0	7.62

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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)		
	+4	+7	+10	+4	+7	+10
40.1	63.05	66.65	66.06	56.31	56.80	57.15
80.1	60.82	61.06	61.27	54.18	53.90	53.50
120.1	57.91	57.98	57.80	52.18	51.42	50.84
160.1	55.16	55.37	55.58	50.51	49.59	49.01
200.1	53.92	54.09	54.16	49.67	48.61	47.91
240.1	52.35	52.64	52.65	48.71	47.63	46.74
280.1	51.47	51.85	51.93	48.09	46.92	45.94
320.1	50.37	50.65	50.64	47.10	45.75	44.63
360.1	49.79	49.94	50.13	46.33	44.93	43.88
400.1	48.84	49.08	49.13	45.64	44.12	43.07
440.1	47.94	48.14	48.23	44.39	43.10	42.09
480.1	47.06	47.28	47.36	43.34	42.14	41.10
520.1	46.20	46.55	46.80	42.00	40.94	40.20
560.1	45.54	45.92	46.22	40.93	39.91	39.23
600.1	45.28	45.54	45.78	40.19	39.18	38.42
640.1	45.07	45.27	45.27	39.50	38.57	37.83
680.1	44.80	44.97	44.95	38.77	37.99	37.28
720.1	44.43	44.43	44.38	37.89	37.20	36.70
760.1	44.03	44.04	43.95	37.23	36.49	35.99
800.1	43.41	43.45	43.39	36.54	35.73	35.12
840.1	43.04	43.09	43.09	36.09	35.40	34.77
880.1	42.74	42.80	42.78	35.52	35.03	34.39
920.1	42.46	42.61	42.63	35.01	34.75	34.21
960.1	42.34	42.50	42.58	34.57	34.44	34.04
1000.1	42.07	42.34	42.47	33.99	33.98	33.62
1020.1	41.98	42.36	42.55	33.68	33.78	33.47
1060.1	41.91	42.36	42.70	33.35	33.58	33.56
1080.1	41.99	42.50	42.78	33.04	33.39	33.46
1120.1	42.06	42.57	43.02	32.53	32.99	33.47
1140.1	42.34	42.85	43.30	32.33	32.75	33.28
1180.1	42.83	43.46	43.79	32.02	32.34	32.77
1200.1	43.05	43.73	44.17	31.81	32.09	32.60
1240.1	43.86	44.68	44.98	31.75	32.03	32.38
1260.1	44.24	45.22	45.47	31.75	32.11	32.40
1300.1	45.27	46.32	46.58	31.62	31.96	32.32
1320.1	45.74	46.79	46.82	31.53	32.03	32.31
1360.1	46.58	47.43	47.25	31.69	32.25	32.67
1380.1	47.16	47.87	47.47	31.62	32.28	32.75
1420.1	47.75	47.89	47.01	31.40	32.28	32.90
1440.1	47.54	47.22	46.23	31.46	32.49	33.18

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	50.40	50.59	50.45
50.1	80.1	36.68	35.95	36.52
90.1	120.1	31.93	32.19	31.43
130.1	160.1	29.57	29.49	29.16
170.1	200.1	28.09	27.78	28.10
210.1	240.1	27.05	27.00	26.94
250.1	280.1	26.54	26.51	26.66
290.1	320.1	26.23	26.32	26.32
330.1	360.1	26.51	26.60	26.78
370.1	400.1	26.48	27.04	27.33
410.1	440.1	26.82	27.23	27.65
450.1	480.1	26.95	27.03	27.08
490.1	520.1	26.64	26.62	26.72
530.1	560.1	25.78	26.16	26.60
570.1	600.1	24.12	24.77	25.38
610.1	640.1	22.23	22.61	23.24
650.1	680.1	20.10	20.30	20.65
690.1	720.1	18.32	18.42	18.39
730.1	760.1	17.18	17.01	16.90
770.1	800.1	16.30	16.09	15.95
810.1	840.1	15.47	15.32	15.15
850.1	880.1	14.96	14.73	14.63
890.1	920.1	14.48	14.28	14.09
930.1	960.1	14.15	13.92	13.77
970.1	1000.1	13.90	13.71	13.64
990.1	1020.1	13.80	13.66	13.57
1030.1	1060.1	13.53	13.62	13.60
1050.1	1080.1	13.56	13.54	13.58
1090.1	1120.1	13.54	13.36	13.44
1110.1	1140.1	13.01	13.24	13.28
1150.1	1180.1	13.18	13.11	13.12
1170.1	1200.1	13.05	13.12	13.16
1210.1	1240.1	12.94	13.08	13.09
1230.1	1260.1	13.00	13.11	13.07
1270.1	1300.1	12.90	13.00	12.94
1290.1	1320.1	12.78	12.93	12.85
1330.1	1360.1	12.60	12.66	12.58
1350.1	1380.1	12.47	12.54	12.42
1390.1	1420.1	12.21	12.24	12.07
1410.1	1440.1	12.05	12.05	11.87

Frequency Mixer

TUF-ED12916/2

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1020.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
10.1	40.1	1.32	1.66	1.28	40.1	2.08	2.97	4.14	10.0	1.70	1.51	1.41
30.1	60.1	1.22	1.13	1.13	80.1	1.91	2.65	3.61	30.0	1.70	1.51	1.41
50.1	80.1	1.10	1.11	1.19	120.1	1.96	2.75	3.77	50.0	1.71	1.53	1.43
70.1	100.1	1.06	1.14	1.23	160.1	1.95	2.72	3.72	70.0	1.73	1.54	1.44
90.1	120.1	1.08	1.11	1.17	200.1	1.89	2.61	3.56	90.0	1.72	1.54	1.44
110.1	140.1	1.07	1.07	1.12	240.1	1.95	2.72	3.72	110.0	1.74	1.56	1.46
130.1	160.1	1.06	1.04	1.11	280.1	1.89	2.61	3.53	130.0	1.75	1.57	1.48
150.1	180.1	1.01	1.08	1.16	320.1	1.91	2.66	3.60	150.0	1.75	1.57	1.48
170.1	200.1	1.05	1.11	1.18	360.1	1.90	2.62	3.52	170.0	1.77	1.60	1.51
190.1	220.1	1.07	1.12	1.18	400.1	1.89	2.59	3.48	190.0	1.78	1.61	1.53
210.1	240.1	1.06	1.10	1.16	440.1	1.91	2.62	3.50	210.0	1.78	1.61	1.53
230.1	260.1	1.04	1.12	1.18	480.1	1.88	2.57	3.42	230.0	1.80	1.64	1.56
250.1	280.1	1.07	1.15	1.22	520.1	1.91	2.60	3.45	250.0	1.83	1.67	1.59
270.1	300.1	1.10	1.17	1.24	560.1	1.90	2.56	3.37	270.0	1.83	1.67	1.60
310.1	340.1	1.08	1.15	1.20	600.1	1.92	2.58	3.39	290.0	1.83	1.68	1.61
330.1	360.1	1.09	1.17	1.23	640.1	1.93	2.57	3.35	310.0	1.86	1.71	1.64
370.1	400.1	1.14	1.22	1.28	680.1	1.92	2.54	3.30	330.0	1.86	1.71	1.65
390.1	420.1	1.13	1.21	1.26	720.1	1.95	2.57	3.32	350.0	1.88	1.73	1.68
430.1	460.1	1.14	1.22	1.27	760.1	1.95	2.54	3.26	390.0	1.90	1.76	1.71
450.1	480.1	1.16	1.23	1.28	800.1	1.97	2.57	3.29	410.0	1.90	1.77	1.73
490.1	520.1	1.16	1.22	1.27	840.1	1.97	2.55	3.25	450.0	1.93	1.81	1.78
510.1	540.1	1.16	1.23	1.28	880.1	1.96	2.53	3.21	470.0	1.92	1.80	1.77
550.1	580.1	1.22	1.29	1.34	920.1	1.98	2.53	3.20	510.0	1.93	1.83	1.80
570.1	600.1	1.23	1.29	1.35	960.1	1.97	2.50	3.14	530.0	1.93	1.83	1.81
610.1	640.1	1.24	1.31	1.37	1000.1	1.98	2.49	3.13	570.0	1.95	1.86	1.85
630.1	660.1	1.27	1.34	1.39	1020.1	1.99	2.50	3.13	590.0	1.92	1.83	1.82
670.1	700.1	1.26	1.33	1.39	1060.1	2.02	2.51	3.12	630.0	1.95	1.87	1.86
690.1	720.1	1.25	1.33	1.38	1080.1	2.02	2.51	3.11	650.0	1.93	1.85	1.84
730.1	760.1	1.26	1.33	1.39	1120.1	2.05	2.53	3.12	690.0	1.92	1.83	1.83
750.1	780.1	1.24	1.30	1.35	1140.1	2.06	2.54	3.12	710.0	1.89	1.81	1.81
790.1	820.1	1.17	1.22	1.26	1180.1	2.07	2.54	3.11	750.0	1.89	1.81	1.81
810.1	840.1	1.16	1.21	1.25	1200.1	2.07	2.54	3.10	770.0	1.86	1.77	1.77
850.1	880.1	1.16	1.18	1.22	1240.1	2.10	2.57	3.13	810.0	1.83	1.74	1.74
870.1	900.1	1.14	1.16	1.19	1260.1	2.11	2.57	3.12	830.0	1.82	1.72	1.71
910.1	940.1	1.15	1.17	1.20	1300.1	2.09	2.54	3.07	870.0	1.78	1.68	1.67
930.1	960.1	1.20	1.21	1.23	1320.1	2.10	2.56	3.09	890.0	1.76	1.64	1.62
970.1	1000.1	1.26	1.26	1.27	1360.1	2.13	2.57	3.10	930.0	1.73	1.61	1.58
990.1	1020.1	1.27	1.27	1.28	1380.1	2.12	2.55	3.07	950.0	1.72	1.58	1.55
1030.1	1060.1	1.38	1.38	1.39	1420.1	2.11	2.54	3.05	990.0	1.66	1.51	1.47
1050.1	1080.1	1.45	1.45	1.45	1440.1	2.12	2.56	3.08	1010.0	1.69	1.54	1.49

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	9	24	20	62	35	36	36	32	38	61
1	-	22	+0	31	11	28	21	38	39	33	54	48
2	> 90	> 69	53	> 69	53	> 69	52	68	64	> 69	> 69	64
3	> 90	69	> 69	> 69	> 69	> 69	62	69	> 69	> 69	> 69	68
4	> 90	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69
5	> 90	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69
6	> 90	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69
7	> 90	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69
8	> 90	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69
9	> 90	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69
10	> 90	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69	> 69
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 525.00 MHz; -14.00 dBm.
LO IN: 555.00 MHz; +7.00 dBm
IF OUT: 30.00 MHz; -20.51 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	19	35	34	57	50	48	53	49	54	77
1	-	22	+0	30	12	31	22	43	41	40	74	56
2	72	64	43	67	44	65	47	64	59	62	61	58
3	> 90	50	44	61	47	70	40	53	47	56	60	49
4	> 90	> 80	69	80	62	> 80	61	> 80	57	72	70	76
5	> 90	69	70	67	55	66	55	64	57	65	68	> 80
6	> 90	> 80	> 80	> 80	76	79	74	> 80	75	> 80	> 80	> 80
7	> 90	> 80	> 80	> 80	77	> 80	> 80	> 80	76	> 80	> 80	> 80
8	> 90	> 80	> 80	> 80	> 80	> 80	> 80	> 80	> 80	> 80	> 80	> 80
9	> 90	> 80	> 80	> 80	> 80	> 80	> 80	> 80	> 80	> 80	> 80	> 80
10	> 90	> 80	> 80	> 80	> 80	> 80	> 80	> 80	> 80	> 80	> 80	> 80
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 525.00 MHz; -4.00 dBm.
LO IN: 555.00 MHz; +7.00 dBm
IF OUT: 30.00 MHz; -10.37 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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