Frequency Mixer LAVI-ED12678A/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=70MHz (dB) @LO (dBm)		
		+14	+17	+20
80.1	10.1	7.21	6.92	6.70
170.1	100.1	7.48	7.25	7.06
260.1	190.1	7.26	7.04	6.88
350.1	280.1	7.24	7.02	6.86
440.1	370.1	7.32	7.10	6.94
530.1	460.1	7.34	7.12	6.95
620.1	550.1	7.45	7.22	7.05
710.1	640.1	7.54	7.31	7.14
800.1	730.1	7.56	7.33	7.16
890.1	820.1	7.64	7.40	7.23
980.1	910.1	7.76	7.54	7.37
1070.1	1000.1	7.81	7.58	7.41
1160.1	1090.1	7.86	7.63	7.45
1250.1	1180.1	7.99	7.76	7.60
1340.1	1270.1	8.10	7.86	7.69
1430.1	1360.1	7.94	7.70	7.52
1520.1	1450.1	7.86	7.63	7.45
1610.1	1540.1	7.82	7.58	7.41
1700.1	1630.1	7.78	7.55	7.37
1790.1	1720.1	7.84	7.61	7.44
1880.1	1810.1	7.92	7.72	7.56
1970.1	1900.1	8.02	7.80	7.66
2070.1	2000.1	8.17	7.95	7.80
2160.1	2090.1	8.36	8.15	8.00
2260.1	2190.1	8.54	8.32	8.18
2350.1	2280.1	8.75	8.53	8.40
2450.1	2380.1	8.95	8.71	8.56
2540.1	2470.1	9.20	8.99	8.84
2640.1	2570.1	9.45	9.23	9.09
2730.1	2660.1	9.74	9.52	9.38
2830.1	2760.1	10.03	9.77	9.64
2920.1	2850.1	10.31	10.03	9.88
3020.1	2950.1	10.55	10.26	10.08
3110.1	3040.1	10.83	10.47	10.26
3210.1	3140.1	11.05	10.64	10.39
3300.1	3230.1	11.24	10.79	10.50
3400.1	3330.1	11.40	10.90	10.59
3490.1	3420.1	11.54	11.01	10.69
3590.1	3520.1	11.66	11.14	10.81
3680.1	3610.1	11.83	11.24	10.85

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm) @LO (dBm)		
		+14	+17	+20
80.1	10.1	14.49	17.63	20.73
170.1	100.1	19.56	22.27	24.66
260.1	190.1	21.57	24.65	27.10
350.1	280.1	22.06	23.91	26.01
440.1	370.1	22.07	24.29	26.35
530.1	460.1	22.31	24.84	27.53
620.1	550.1	22.42	25.10	27.72
710.1	640.1	22.24	24.69	28.07
800.1	730.1	22.89	25.46	28.11
890.1	820.1	22.86	25.91	28.06
980.1	910.1	23.23	26.44	29.28
1070.1	1000.1	23.66	26.53	29.22
1160.1	1090.1	23.79	26.76	29.55
1250.1	1180.1	24.00	26.71	30.55
1340.1	1270.1	23.95	27.25	30.40
1430.1	1360.1	23.85	27.47	31.51
1520.1	1450.1	23.91	27.09	30.74
1610.1	1540.1	22.91	25.84	29.06
1700.1	1630.1	21.80	24.61	27.55
1790.1	1720.1	21.69	24.44	27.23
1880.1	1810.1	22.09	24.71	27.33
1970.1	1900.1	22.25	25.10	27.75
2070.1	2000.1	22.03	24.79	27.72
2160.1	2090.1	22.22	25.15	28.45
2260.1	2190.1	22.05	25.40	28.23
2350.1	2280.1	21.93	25.17	28.03
2450.1	2380.1	21.78	24.89	27.97
2540.1	2470.1	22.32	25.37	29.19
2640.1	2570.1	22.18	25.29	28.92
2730.1	2660.1	21.99	25.23	29.19
2830.1	2760.1	21.43	24.73	28.29
2920.1	2850.1	20.79	24.02	27.20
3020.1	2950.1	20.32	23.24	26.44
3110.1	3040.1	19.78	22.91	25.84
3210.1	3140.1	19.26	22.48	25.36
3300.1	3230.1	18.68	21.98	24.98
3400.1	3330.1	18.11	21.50	24.47
3490.1	3420.1	17.68	21.16	24.20
3590.1	3520.1	17.33	20.61	23.93
3680.1	3610.1	16.47	19.93	23.55

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+10dBm (dB) @LO (dBm)		
		+14	+17	+20
80.1	10.1	3.79	1.85	0.79
170.1	100.1	1.02	0.45	0.22
260.1	190.1	0.55	0.26	0.12
350.1	280.1	0.45	0.21	0.11
440.1	370.1	0.38	0.19	0.10
530.1	460.1	0.38	0.18	0.09
620.1	550.1	0.39	0.18	0.09
710.1	640.1	0.38	0.18	0.09
800.1	730.1	0.37	0.18	0.08
890.1	820.1	0.36	0.17	0.09
980.1	910.1	0.34	0.16	0.08
1070.1	1000.1	0.33	0.16	0.08
1160.1	1090.1	0.33	0.15	0.07
1250.1	1180.1	0.32	0.15	0.07
1340.1	1270.1	0.32	0.15	0.07
1430.1	1360.1	0.34	0.15	0.07
1520.1	1450.1	0.34	0.14	0.07
1610.1	1540.1	0.36	0.16	0.08
1700.1	1630.1	0.38	0.18	0.09
1790.1	1720.1	0.39	0.19	0.09
1880.1	1810.1	0.37	0.19	0.09
1970.1	1900.1	0.36	0.18	0.09
2070.1	2000.1	0.39	0.19	0.09
2160.1	2090.1	0.39	0.19	0.09
2260.1	2190.1	0.41	0.20	0.10
2350.1	2280.1	0.42	0.20	0.10
2450.1	2380.1	0.43	0.21	0.10
2540.1	2470.1	0.41	0.20	0.10
2640.1	2570.1	0.43	0.21	0.10
2730.1	2660.1	0.45	0.21	0.10
2830.1	2760.1	0.51	0.23	0.10
2920.1	2850.1	0.58	0.26	0.12
3020.1	2950.1	0.67	0.31	0.15
3110.1	3040.1	0.77	0.35	0.17
3210.1	3140.1	0.90	0.39	0.19
3300.1	3230.1	1.08	0.48	0.23
3400.1	3330.1	1.25	0.54	0.26
3490.1	3420.1	1.37	0.60	0.28
3590.1	3520.1	1.46	0.69	0.31
3680.1	3610.1	1.70	0.82	0.34

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1110.1MHz (dB) @LO (dBm) +17
1100.1	10.0	8.31
1080.3	29.8	8.06
1060.5	49.6	8.05
1040.6	69.5	8.04
1020.8	89.3	8.01
1001.0	109.1	8.05
981.2	128.9	8.06
961.4	148.7	8.04
921.7	188.4	7.96
901.9	208.2	7.95
862.3	247.8	7.90
842.5	267.6	7.87
802.8	307.3	7.85
783.0	327.1	7.82
743.4	366.7	7.74
723.6	386.5	7.74
683.9	426.2	7.73
664.1	446.0	7.70
624.5	485.6	7.71
604.6	505.5	7.70
565.0	545.1	7.61
545.2	564.9	7.59
505.6	604.5	7.58
485.7	624.4	7.58
446.1	664.0	7.49
426.3	683.8	7.46
386.6	723.5	7.52
366.8	743.3	7.47
327.2	782.9	7.47
307.4	802.7	7.53
267.7	842.4	7.55
247.9	862.2	7.57
208.3	901.8	7.57
188.5	921.6	7.58
148.8	961.3	7.59
129.0	981.1	7.56
89.4	1020.7	7.60
69.6	1040.5	7.68
29.9	1080.2	7.73
10.1	1100.0	8.01

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=80MHz (dB) @LO (dBm) +17
10.1	90.1	7.26
90.1	170.1	6.90
170.1	250.1	6.92
250.1	330.1	7.07
330.1	410.1	7.15
410.1	490.1	7.24
490.1	570.1	7.29
570.1	650.1	7.37
650.1	730.1	7.39
730.1	810.1	7.41
810.1	890.1	7.50
910.1	990.1	7.58
990.1	1070.1	7.68
1090.1	1170.1	7.85
1170.1	1250.1	8.04
1270.1	1350.1	8.07
1350.1	1430.1	8.08
1450.1	1530.1	8.21
1530.1	1610.1	8.27
1630.1	1710.1	8.40
1710.1	1790.1	8.42
1810.1	1890.1	8.46
1890.1	1970.1	8.50
1990.1	2070.1	8.54
2070.1	2150.1	8.60
2170.1	2250.1	8.58
2250.1	2330.1	8.55
2350.1	2430.1	8.64
2430.1	2510.1	8.59
2530.1	2610.1	8.66
2610.1	2690.1	8.74
2710.1	2790.1	8.88
2790.1	2870.1	9.17
2890.1	2970.1	9.55
2970.1	3050.1	9.94
3070.1	3150.1	10.42
3150.1	3230.1	10.88
3250.1	3330.1	11.28
3330.1	3410.1	11.67
3430.1	3510.1	12.09

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2210.1001MHz (dB) @LO (dBm) +17
2200.1	10.0	9.41
2140.1	70.0	9.01
2080.1	130.0	9.07
2020.1	190.0	9.04
1960.1	250.0	8.99
1900.1	310.0	8.99
1840.1	370.0	8.91
1780.1	430.0	8.93
1720.1	490.0	8.91
1660.1	550.0	8.82
1600.1	610.0	8.77
1550.1	660.0	8.75
1490.1	720.0	8.73
1440.1	770.0	8.71
1380.1	830.0	8.66
1330.1	880.0	8.61
1270.1	940.0	8.60
1220.1	990.0	8.55
1160.1	1050.0	8.54
1110.1	1100.0	8.44
1050.1	1160.0	8.50
1000.1	1210.0	8.51
940.1	1270.0	8.37
890.1	1320.0	8.34
830.1	1380.0	8.30
780.1	1430.0	8.28
720.1	1490.0	8.27
670.1	1540.0	8.30
610.1	1600.0	8.24
560.1	1650.0	8.27
500.1	1710.0	8.25
450.1	1760.0	8.26
390.1	1820.0	8.29
340.1	1870.0	8.26
280.1	1930.0	8.25
230.1	1980.0	8.20
170.1	2040.0	8.15
120.1	2090.0	8.13
60.1	2150.0	8.26
10.1	2200.0	8.55

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB) @LO (dBm)			LO-IF ISOLATION (dB) @LO (dBm)		
	+14	+17	+20	+14	+17	+20
10.1	78.44	73.35	75.28	67.27	66.18	65.48
100.1	56.92	57.17	57.07	49.04	48.61	48.19
190.1	48.33	48.31	48.35	48.75	48.27	48.01
280.1	48.32	48.28	48.18	50.03	49.75	49.52
370.1	48.20	47.99	47.79	51.68	51.54	51.44
460.1	48.79	48.54	48.31	53.03	52.94	52.89
550.1	49.11	48.71	48.40	54.94	54.78	54.76
640.1	48.93	48.42	48.08	56.91	56.70	56.57
730.1	49.63	49.58	49.41	60.68	60.45	60.37
820.1	48.56	48.23	48.09	64.15	62.84	62.26
910.1	48.39	48.17	47.95	71.02	68.89	67.74
1000.1	49.98	49.80	49.63	69.80	71.26	71.49
1090.1	52.67	52.34	51.98	60.77	61.14	60.98
1180.1	60.90	59.82	58.74	56.07	56.06	55.82
1270.1	53.18	53.53	53.83	53.76	53.67	53.52
1360.1	44.13	44.11	44.16	51.03	50.46	49.98
1450.1	42.18	42.18	42.36	48.31	47.71	47.46
1540.1	40.95	40.89	40.88	48.09	47.77	47.40
1630.1	39.86	39.78	39.63	48.02	47.67	47.20
1720.1	40.73	40.62	40.52	48.14	47.76	47.38
1810.1	41.64	41.93	41.89	49.60	49.36	48.97
1900.1	41.56	41.71	42.01	54.07	53.63	53.52
2000.1	40.94	41.10	41.25	62.31	63.66	64.59
2090.1	40.15	40.18	40.23	62.61	65.26	67.65
2190.1	39.45	39.41	39.69	55.45	56.29	57.29
2280.1	39.05	38.93	39.20	50.76	50.84	51.35
2380.1	38.46	38.46	38.44	48.12	47.95	47.88
2470.1	37.97	38.07	38.10	48.79	49.18	49.49
2570.1	37.45	37.60	37.63	49.13	49.62	50.04
2660.1	37.00	37.12	37.13	49.03	49.54	50.04
2760.1	36.63	36.57	36.67	48.89	49.23	49.91
2850.1	36.38	36.27	36.50	48.90	49.11	49.91
2950.1	36.19	36.39	36.49	48.65	49.04	49.61
3040.1	36.32	36.34	36.49	48.51	48.45	48.84
3140.1	36.54	36.49	36.74	48.49	48.05	48.30
3230.1	36.89	37.00	37.16	48.82	48.31	48.15
3330.1	37.49	37.64	37.90	49.51	49.00	48.81
3420.1	38.02	38.15	38.50	49.66	49.25	49.08
3520.1	38.62	38.98	39.23	50.31	50.05	49.73
3610.1	39.23	39.46	39.51	51.39	51.14	50.56

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB) @LO (dBm)		
		+14	+17	+20
80.1	10.1	27.26	26.95	26.68
170.1	100.1	31.01	31.31	31.47
260.1	190.1	35.98	35.51	35.06
350.1	280.1	40.41	40.01	39.50
440.1	370.1	41.76	41.28	40.71
530.1	460.1	39.86	38.78	37.71
620.1	550.1	42.27	41.93	41.72
710.1	640.1	40.78	40.35	39.90
800.1	730.1	38.76	38.01	37.40
890.1	820.1	39.50	39.27	39.26
980.1	910.1	37.36	36.95	36.65
1070.1	1000.1	36.27	35.79	35.42
1160.1	1090.1	35.91	35.77	36.04
1250.1	1180.1	34.52	34.21	33.98
1340.1	1270.1	34.39	34.11	34.22
1430.1	1360.1	33.78	33.60	33.72
1520.1	1450.1	34.26	33.91	33.86
1610.1	1540.1	36.77	36.46	36.64
1700.1	1630.1	38.48	38.37	38.59
1790.1	1720.1	38.44	38.48	38.54
1880.1	1810.1	37.14	37.06	37.06
1970.1	1900.1	36.84	36.83	36.66
2070.1	2000.1	36.78	36.80	36.60
2160.1	2090.1	35.74	35.70	35.60
2260.1	2190.1	33.89	33.73	33.60
2350.1	2280.1	33.10	32.88	32.63
2450.1	2380.1	33.12	32.96	32.73
2540.1	2470.1	33.15	32.99	32.73
2640.1	2570.1	33.31	33.17	33.00
2730.1	2660.1	33.49	33.34	33.24
2830.1	2760.1	33.88	33.63	33.47
2920.1	2850.1	34.75	34.48	34.30
3020.1	2950.1	36.12	35.85	35.65
3110.1	3040.1	37.40	37.22	37.03
3210.1	3140.1	38.58	38.46	38.26
3300.1	3230.1	39.10	39.06	38.86
3400.1	3330.1	39.36	39.46	39.37
3490.1	3420.1	39.39	39.62	39.57
3590.1	3520.1	38.38	38.44	38.46
3680.1	3610.1	37.34	37.34	37.17

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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1) @LO (dBm)		
		+14	+17	+20
80.1	10.1	1.21	1.21	1.22
170.1	100.1	1.39	1.41	1.44
260.1	190.1	1.48	1.51	1.53
350.1	280.1	1.59	1.60	1.62
440.1	370.1	1.71	1.70	1.71
530.1	460.1	1.81	1.80	1.78
620.1	550.1	1.88	1.85	1.83
710.1	640.1	1.91	1.86	1.82
800.1	730.1	1.89	1.83	1.78
890.1	820.1	1.87	1.79	1.73
980.1	910.1	1.83	1.75	1.67
1070.1	1000.1	1.79	1.70	1.63
1160.1	1090.1	1.78	1.70	1.62
1250.1	1180.1	1.73	1.65	1.58
1340.1	1270.1	1.66	1.59	1.54
1430.1	1360.1	1.64	1.59	1.54
1520.1	1450.1	1.54	1.49	1.45
1610.1	1540.1	1.37	1.33	1.30
1700.1	1630.1	1.19	1.17	1.15
1790.1	1720.1	1.10	1.13	1.17
1880.1	1810.1	1.17	1.22	1.28
1970.1	1900.1	1.30	1.36	1.41
2070.1	2000.1	1.43	1.50	1.56
2160.1	2090.1	1.55	1.61	1.68
2260.1	2190.1	1.65	1.71	1.77
2350.1	2280.1	1.69	1.75	1.80
2450.1	2380.1	1.71	1.75	1.80
2540.1	2470.1	1.68	1.70	1.74
2640.1	2570.1	1.64	1.66	1.68
2730.1	2660.1	1.57	1.57	1.58
2830.1	2760.1	1.51	1.50	1.49
2920.1	2850.1	1.49	1.47	1.45
3020.1	2950.1	1.49	1.46	1.43
3110.1	3040.1	1.49	1.46	1.43
3210.1	3140.1	1.48	1.45	1.42
3300.1	3230.1	1.42	1.39	1.36
3400.1	3330.1	1.34	1.32	1.29
3490.1	3420.1	1.26	1.23	1.21
3590.1	3520.1	1.14	1.13	1.11
3680.1	3610.1	1.06	1.06	1.07

LO (MHz)	LO VSWR (:1) @LO (dBm)		
	+14	+17	+20
10.1	2.10	2.06	2.01
100.1	2.01	2.01	2.00
190.1	2.16	2.15	2.14
280.1	2.28	2.28	2.27
370.1	2.39	2.39	2.39
460.1	2.51	2.51	2.50
550.1	2.61	2.60	2.60
640.1	2.66	2.66	2.65
730.1	2.68	2.68	2.67
820.1	2.66	2.66	2.66
910.1	2.61	2.61	2.61
1000.1	2.54	2.54	2.54
1090.1	2.48	2.48	2.48
1180.1	2.42	2.42	2.41
1270.1	2.38	2.38	2.38
1360.1	2.40	2.40	2.40
1450.1	2.44	2.44	2.44
1540.1	2.48	2.48	2.48
1630.1	2.53	2.53	2.53
1720.1	2.58	2.58	2.58
1810.1	2.62	2.62	2.62
1900.1	2.65	2.65	2.64
2000.1	2.64	2.63	2.62
2090.1	2.60	2.60	2.58
2190.1	2.53	2.52	2.51
2280.1	2.44	2.44	2.43
2380.1	2.33	2.33	2.32
2470.1	2.24	2.23	2.22
2570.1	2.14	2.13	2.12
2660.1	2.07	2.07	2.06
2760.1	2.02	2.01	2.01
2850.1	1.99	1.99	1.98
2950.1	1.99	1.98	1.97
3040.1	2.00	2.00	1.99
3140.1	2.03	2.03	2.02
3230.1	2.06	2.05	2.04
3330.1	2.11	2.11	2.10
3420.1	2.16	2.15	2.13
3520.1	2.22	2.22	2.20
3610.1	2.29	2.28	2.25

IF (OUT) (MHz)	IF VSWR @LO=2650MHz (:1) @LO (dBm)		
	+14	+17	+20
10.1	1.20	1.27	1.34
70.1	1.21	1.28	1.34
130.1	1.20	1.25	1.31
190.1	1.29	1.33	1.38
250.1	1.38	1.41	1.46
310.1	1.44	1.46	1.49
370.1	1.53	1.54	1.57
430.1	1.61	1.62	1.64
490.1	1.65	1.66	1.66
550.1	1.73	1.73	1.74
610.1	1.79	1.78	1.78
670.1	1.80	1.78	1.77
750.1	1.81	1.79	1.77
810.1	1.85	1.82	1.80
890.1	1.87	1.83	1.79
950.1	1.85	1.80	1.75
1030.1	1.85	1.79	1.74
1090.1	1.83	1.77	1.71
1170.1	1.79	1.72	1.66
1230.1	1.78	1.70	1.64
1310.1	1.68	1.60	1.54
1370.1	1.64	1.56	1.50
1450.1	1.59	1.50	1.43
1510.1	1.53	1.45	1.38
1590.1	1.52	1.44	1.37
1650.1	1.49	1.41	1.34
1730.1	1.49	1.42	1.35
1790.1	1.47	1.40	1.34
1870.1	1.42	1.36	1.30
1930.1	1.42	1.36	1.30
2010.1	1.35	1.29	1.24
2070.1	1.32	1.26	1.21
2150.1	1.25	1.20	1.16
2210.1	1.17	1.13	1.10
2290.1	1.12	1.09	1.09
2350.1	1.08	1.08	1.11
2430.1	1.07	1.11	1.16
2490.1	1.13	1.18	1.24
2570.1	1.18	1.23	1.29
2630.1	1.23	1.28	1.34

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Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	33	24	29	34	45	53	57	43	50	60
1	-	28	+0	36	13	37	30	43	41	59	43	61
2	73	62	71	58	67	59	>77	60	>77	67	>77	73
3	>90	>77	77	>77	70	>77	72	>77	>77	>77	>77	>77
4	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
5	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
6	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
7	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
8	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
9	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
10	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1140 MHz; -5.00 dBm.
LO IN: 1070 MHz; +17.00 dBm
IF OUT: 70 MHz; -12.63 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	33	34	37	46	54	70	68	53	61	67
1	-	28	+0	37	13	38	31	44	40	60	42	62
2	53	53	60	48	59	49	69	50	70	57	74	64
3	82	75	57	75	50	67	50	67	61	75	73	>87
4	>90	>87	>87	>87	>87	87	>87	>87	>87	83	>87	85
5	>90	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
6	>90	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
7	>90	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
8	>90	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
9	>90	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
10	>90	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1140 MHz; 5.00 dBm.
LO IN: 1070 MHz; +17.00 dBm
IF OUT: 70 MHz; -2.68 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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