

Frequency Mixer

LAVI-ED12954/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)		
		@LO (dBm)		
		+17	+20	+23
10.1	40.1	7.84	7.05	6.62
90.6	120.6	6.82	6.58	6.43
171.1	201.1	6.82	6.65	6.53
251.6	281.6	6.91	6.76	6.65
332.1	362.1	6.94	6.78	6.68
412.6	442.6	7.01	6.85	6.74
493.1	523.1	7.01	6.84	6.72
573.6	603.6	7.10	6.91	6.79
654.1	684.1	7.23	7.06	6.93
734.6	764.6	7.30	7.13	7.00
815.1	845.1	7.40	7.22	7.09
895.6	925.6	7.48	7.30	7.17
976.1	1006.1	7.57	7.38	7.26
1056.6	1086.6	7.69	7.51	7.38
1137.1	1167.1	7.79	7.60	7.48
1217.6	1247.6	7.89	7.72	7.60
1298.2	1328.2	8.03	7.87	7.76
1378.7	1408.7	8.12	7.96	7.86
1459.2	1489.2	8.18	8.02	7.93
1539.7	1569.7	8.22	8.07	7.98
1620.2	1650.2	8.26	8.11	8.03
1700.7	1730.7	8.28	8.12	8.05
1781.2	1811.2	8.34	8.17	8.13
1861.7	1891.7	8.42	8.24	8.11
1942.2	1972.2	8.52	8.31	8.15
2022.7	2052.7	8.65	8.38	8.21
2103.2	2133.2	8.79	8.49	8.30
2183.7	2213.7	8.85	8.53	8.29
2264.2	2294.2	8.89	8.54	8.27
2344.7	2374.7	8.93	8.55	8.26
2425.2	2455.2	9.02	8.59	8.32
2505.7	2535.7	9.19	8.74	8.46
2586.2	2616.2	9.38	8.89	8.60
2666.7	2696.7	9.64	9.13	8.82
2747.2	2777.2	9.91	9.43	9.09
2847.8	2877.8	10.37	9.86	9.60
2928.3	2958.3	10.76	10.24	9.93
3029.0	3059.0	11.39	10.89	10.60
3109.5	3139.5	12.03	11.50	11.19
3210.1	3240.1	12.91	12.14	11.64

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+17	+20	+23
10.1	40.1	15.64	17.91	21.13
90.6	120.6	22.50	25.80	28.35
171.1	201.1	25.69	27.98	30.11
251.6	281.6	26.77	29.45	31.86
332.1	362.1	27.47	30.19	32.33
412.6	442.6	27.74	30.42	32.71
493.1	523.1	27.64	30.47	32.76
573.6	603.6	27.24	29.91	32.17
654.1	684.1	27.40	30.25	32.62
734.6	764.6	27.64	30.67	33.34
815.1	845.1	27.82	30.90	33.26
895.6	925.6	27.71	30.52	32.99
976.1	1006.1	27.19	29.83	32.25
1056.6	1086.6	26.79	29.44	32.18
1137.1	1167.1	26.61	29.28	32.33
1217.6	1247.6	26.74	29.47	32.66
1298.2	1328.2	27.07	29.82	33.26
1378.7	1408.7	27.52	30.44	34.08
1459.2	1489.2	28.14	31.25	35.07
1539.7	1569.7	28.77	32.23	36.37
1620.2	1650.2	29.07	32.38	35.81
1700.7	1730.7	28.95	32.36	34.64
1781.2	1811.2	28.48	32.13	33.31
1861.7	1891.7	27.98	31.15	34.79
1942.2	1972.2	27.14	29.93	32.91
2022.7	2052.7	25.36	27.98	30.76
2103.2	2133.2	23.99	26.53	29.44
2183.7	2213.7	23.09	25.43	28.32
2264.2	2294.2	22.26	24.53	27.22
2344.7	2374.7	21.65	24.06	26.67
2425.2	2455.2	21.20	23.99	26.53
2505.7	2535.7	20.80	23.68	26.22
2586.2	2616.2	20.17	23.25	25.75
2666.7	2696.7	19.85	23.01	25.72
2747.2	2777.2	19.68	22.70	25.56
2847.8	2877.8	19.41	22.57	25.57
2928.3	2958.3	19.39	22.62	25.82
3029.0	3059.0	19.34	22.62	25.86
3109.5	3139.5	18.93	22.21	25.34
3210.1	3240.1	17.30	19.72	23.35

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+20dBm (dB)		
		@LO (dBm)		
		+17	+20	+23
10.1	40.1	9.63	7.79	5.64
90.6	120.6	4.24	2.40	1.18
171.1	201.1	2.23	1.09	0.50
251.6	281.6	1.74	0.80	0.39
332.1	362.1	1.54	0.72	0.35
412.6	442.6	1.47	0.68	0.32
493.1	523.1	1.55	0.70	0.33
573.6	603.6	1.64	0.71	0.33
654.1	684.1	1.65	0.75	0.33
734.6	764.6	1.70	0.77	0.34
815.1	845.1	1.73	0.75	0.31
895.6	925.6	1.66	0.69	0.30
976.1	1006.1	1.62	0.67	0.28
1056.6	1086.6	1.62	0.68	0.28
1137.1	1167.1	1.54	0.66	0.27
1217.6	1247.6	1.47	0.67	0.28
1298.2	1328.2	1.37	0.61	0.28
1378.7	1408.7	1.24	0.56	0.26
1459.2	1489.2	1.19	0.52	0.24
1539.7	1569.7	1.17	0.48	0.21
1620.2	1650.2	1.22	0.50	0.21
1700.7	1730.7	1.30	0.53	0.28
1781.2	1811.2	1.52	0.58	0.40
1861.7	1891.7	1.82	0.75	0.28
1942.2	1972.2	2.28	0.98	0.37
2022.7	2052.7	2.95	1.30	0.51
2103.2	2133.2	3.53	1.75	0.71
2183.7	2213.7	4.15	2.32	0.91
2264.2	2294.2	4.81	2.84	1.21
2344.7	2374.7	5.33	3.31	1.51
2425.2	2455.2	5.65	3.47	1.70
2505.7	2535.7	5.88	3.59	1.81
2586.2	2616.2	6.14	3.90	2.05
2666.7	2696.7	6.37	4.08	2.18
2747.2	2777.2	6.32	4.24	2.15
2847.8	2877.8	6.00	3.87	1.91
2928.3	2958.3	6.08	3.98	1.96
3029.0	3059.0	6.30	4.15	2.09
3109.5	3139.5	6.36	4.25	2.30
3210.1	3240.1	5.74	4.28	2.71

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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)=1250MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=989.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1510.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+20			+20			+20
1240.0	10.0	13.62	10.1	1000.0	7.55	1490.1	20.0	10.62
1174.4	75.6	8.70	50.1	1040.0	7.40	1449.6	60.5	9.42
1108.8	141.2	8.32	90.1	1080.0	7.45	1409.0	101.1	9.03
1043.2	206.8	8.08	130.1	1120.0	7.50	1368.5	141.6	8.92
977.6	272.4	7.98	170.1	1160.0	7.54	1327.9	182.2	8.75
912.0	338.0	7.92	210.1	1200.0	7.58	1287.4	222.7	8.69
846.4	403.6	7.90	250.1	1240.0	7.59	1246.8	263.3	8.59
780.8	469.2	7.86	290.1	1280.0	7.62	1206.3	303.8	8.49
715.2	534.8	7.77	330.1	1320.0	7.65	1165.7	344.4	8.46
649.6	600.4	7.80	370.1	1360.0	7.70	1125.2	384.9	8.39
584.0	666.0	7.81	410.1	1400.0	7.76	1084.6	425.5	8.36
518.4	731.6	7.76	470.1	1460.0	7.75	1044.1	466.0	8.30
452.8	797.2	7.83	510.1	1500.0	7.79	1003.5	506.6	8.30
387.2	862.8	7.83	570.1	1560.0	7.83	963.0	547.1	8.27
321.6	928.4	7.80	610.1	1600.0	7.85	922.4	587.7	8.26
256.0	994.0	7.79	670.1	1660.0	7.97	881.9	628.2	8.20
190.4	1059.6	7.79	710.1	1700.0	7.98	841.3	668.8	8.18
124.8	1125.2	7.74	770.1	1760.0	8.16	800.8	709.3	8.11
59.2	1190.8	7.78	810.1	1800.0	8.14	760.2	749.9	8.05
10.0	1260.0	8.03	870.1	1860.0	8.21	719.7	790.4	8.01
104.9	1354.9	7.91	910.1	1900.0	8.23	679.1	831.0	8.01
199.9	1449.9	7.96	970.1	1960.0	8.29	638.6	871.5	8.01
294.8	1544.8	8.06	1010.1	2000.0	8.34	598.0	912.1	7.99
389.7	1639.7	8.07	1070.1	2060.0	8.39	557.5	952.6	8.01
484.7	1734.7	8.05	1110.1	2100.0	8.52	516.9	993.2	8.01
579.6	1829.6	8.09	1170.1	2160.0	8.64	476.4	1033.7	8.00
674.5	1924.5	8.18	1210.1	2200.0	8.71	435.9	1074.2	7.94
769.5	2019.5	8.24	1270.1	2260.0	8.86	395.3	1114.8	7.96
864.4	2114.4	8.37	1310.1	2300.0	8.94	354.8	1155.3	7.99
959.3	2209.3	8.54	1370.1	2360.0	9.06	314.2	1195.9	8.03
1054.3	2304.3	8.73	1410.1	2400.0	9.14	273.7	1236.4	8.04
1125.5	2375.5	8.84	1470.1	2460.0	9.33	253.4	1256.7	7.98
1220.4	2470.4	8.97	1510.1	2500.0	9.45	212.8	1297.3	7.98
1291.6	2541.6	9.11	1570.1	2560.0	9.72	192.6	1317.5	8.01
1386.5	2636.5	9.36	1610.1	2600.0	9.86	152.0	1358.1	7.97
1457.7	2707.7	9.60	1670.1	2660.0	10.08	131.7	1378.4	8.05
1552.7	2802.7	9.99	1710.1	2700.0	10.25	91.2	1418.9	8.06
1623.9	2873.9	10.32	1770.1	2760.0	10.50	70.9	1439.2	7.98
1718.8	2968.8	10.75	1810.1	2800.0	10.71	30.4	1479.7	8.01
1790.0	3040.0	11.10	1870.1	2860.0	10.97	10.1	1500.0	8.16

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+17	+20	+23	+17	+20	+23
40.1	73.60	75.39	79.30	70.76	69.22	68.45
120.6	53.43	53.66	54.03	52.80	52.73	52.81
201.1	47.21	47.36	47.41	45.87	45.83	45.80
281.6	45.11	44.99	45.26	44.02	43.83	43.77
362.1	45.74	45.77	45.90	45.15	45.02	45.00
442.6	47.36	47.42	47.49	46.55	46.37	46.20
523.1	51.25	51.34	51.32	48.77	48.36	47.96
603.6	56.31	55.96	55.90	52.82	52.09	51.79
684.1	59.80	59.44	58.71	54.47	53.97	53.50
764.6	61.51	61.19	60.90	54.51	53.97	53.46
845.1	62.62	62.05	61.28	54.74	54.92	55.10
925.6	66.18	65.35	64.32	52.94	53.26	53.79
1006.1	69.31	67.91	65.92	52.07	52.40	52.93
1086.6	64.01	63.10	61.42	51.80	52.05	52.51
1167.1	60.21	59.54	57.84	53.69	53.99	54.21
1247.6	55.44	54.78	53.55	54.46	54.99	55.21
1328.2	50.04	49.52	48.52	57.76	58.72	59.23
1408.7	46.34	45.96	44.75	65.84	71.04	80.51
1489.2	44.28	43.60	42.97	63.70	64.39	64.11
1569.7	43.32	42.70	41.95	67.52	70.35	69.90
1650.2	43.23	42.38	40.03	62.39	59.95	58.00
1730.7	44.32	43.64	44.46	51.73	50.79	50.18
1811.2	47.37	45.94	44.30	46.43	45.61	45.15
1891.7	54.49	53.91	53.23	43.05	42.68	41.96
1972.2	53.60	53.29	53.11	41.14	40.79	40.32
2052.7	55.49	54.89	54.85	40.26	39.76	39.43
2133.2	49.36	48.81	48.70	39.68	39.36	39.16
2213.7	46.87	46.44	46.01	39.17	38.99	38.69
2294.2	47.01	46.71	46.23	38.54	38.58	38.32
2374.7	47.92	47.58	47.20	38.35	38.37	38.15
2455.2	48.58	48.07	47.82	38.26	38.06	38.05
2535.7	49.73	49.14	48.70	38.27	38.03	37.92
2616.2	50.57	50.07	49.71	38.17	37.89	37.76
2696.7	51.68	51.11	50.68	38.09	37.77	37.63
2777.2	53.24	52.84	51.88	37.80	37.74	37.34
2877.8	56.91	56.31	55.09	38.00	37.73	36.98
2958.3	60.30	59.19	57.94	38.07	37.88	37.25
3059.0	57.71	56.61	55.38	38.11	37.78	37.03
3139.5	54.36	53.84	53.00	38.34	38.00	37.29
3240.1	52.53	52.28	51.88	38.77	38.58	37.99

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+17	+20	+23
10.1	40.1	44.34	37.93	34.92
90.6	120.6	33.97	32.83	31.54
171.1	201.1	38.78	37.73	34.35
251.6	281.6	46.46	45.93	44.15
332.1	362.1	46.39	46.21	45.64
412.6	442.6	42.58	42.64	42.07
493.1	523.1	40.26	40.25	40.20
573.6	603.6	39.47	39.38	39.41
654.1	684.1	39.43	39.30	39.31
734.6	764.6	38.99	38.61	38.67
815.1	845.1	37.10	36.76	36.98
895.6	925.6	35.66	35.19	35.28
976.1	1006.1	36.13	35.87	36.58
1056.6	1086.6	36.90	37.06	39.12
1137.1	1167.1	37.32	37.70	40.77
1217.6	1247.6	37.61	37.85	39.85
1298.2	1328.2	38.05	38.27	40.07
1378.7	1408.7	38.06	38.50	40.42
1459.2	1489.2	36.35	36.61	37.02
1539.7	1569.7	34.52	34.46	34.49
1620.2	1650.2	33.13	32.93	32.85
1700.7	1730.7	32.27	32.16	33.65
1781.2	1811.2	31.70	31.52	31.83
1861.7	1891.7	31.83	31.61	31.85
1942.2	1972.2	32.54	32.26	31.94
2022.7	2052.7	33.86	33.52	33.01
2103.2	2133.2	34.71	34.36	34.09
2183.7	2213.7	35.02	34.61	34.16
2264.2	2294.2	35.00	34.52	33.93
2344.7	2374.7	34.69	34.12	33.52
2425.2	2455.2	34.53	33.90	33.16
2505.7	2535.7	34.59	34.07	33.30
2586.2	2616.2	34.36	34.00	33.38
2666.7	2696.7	34.33	33.98	33.59
2747.2	2777.2	34.39	34.15	33.62
2847.8	2877.8	34.75	34.63	34.52
2928.3	2958.3	35.13	35.08	35.22
3029.0	3059.0	35.27	35.23	35.23
3109.5	3139.5	35.44	35.35	35.54
3210.1	3240.1	35.59	35.44	35.47

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Frequency Mixer

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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=1800.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+17	+20	+23		+17	+20	+23		+17	+20	+23
10.1	40.1	1.09	1.04	1.01	40.1	4.14	4.14	4.12	10.1	1.70	1.82	1.86
90.6	120.6	1.24	1.28	1.31	120.6	3.67	3.67	3.66	50.1	1.66	1.78	1.81
171.1	201.1	1.39	1.43	1.46	201.1	3.67	3.66	3.66	90.1	1.65	1.76	1.80
251.6	281.6	1.50	1.53	1.57	281.6	3.76	3.76	3.76	130.1	1.61	1.72	1.75
332.1	362.1	1.52	1.55	1.58	362.1	3.82	3.82	3.82	170.1	1.60	1.69	1.72
412.6	442.6	1.54	1.56	1.58	442.6	3.82	3.82	3.82	210.1	1.56	1.64	1.67
493.1	523.1	1.59	1.59	1.60	523.1	3.77	3.77	3.76	250.1	1.52	1.59	1.62
573.6	603.6	1.67	1.66	1.65	603.6	3.71	3.70	3.70	290.1	1.48	1.54	1.56
654.1	684.1	1.75	1.72	1.71	684.1	3.64	3.63	3.62	330.1	1.44	1.49	1.51
734.6	764.6	1.84	1.81	1.78	764.6	3.54	3.54	3.54	370.1	1.40	1.43	1.45
815.1	845.1	1.96	1.92	1.88	845.1	3.45	3.45	3.45	410.1	1.37	1.38	1.39
895.6	925.6	2.08	2.04	2.00	925.6	3.33	3.33	3.32	450.1	1.34	1.34	1.34
976.1	1006.1	2.15	2.10	2.06	1006.1	3.21	3.20	3.20	490.1	1.31	1.29	1.29
1056.6	1086.6	2.13	2.08	2.04	1086.6	3.07	3.06	3.05	530.1	1.33	1.29	1.28
1137.1	1167.1	2.05	2.00	1.96	1167.1	2.94	2.93	2.92	570.1	1.31	1.26	1.24
1217.6	1247.6	1.89	1.85	1.81	1247.6	2.81	2.81	2.81	610.1	1.37	1.30	1.28
1298.2	1328.2	1.74	1.69	1.65	1328.2	2.69	2.69	2.70	650.1	1.37	1.31	1.28
1378.7	1408.7	1.60	1.55	1.51	1408.7	2.57	2.58	2.59	690.1	1.45	1.39	1.36
1459.2	1489.2	1.49	1.44	1.39	1489.2	2.48	2.49	2.50	730.1	1.46	1.39	1.37
1539.7	1569.7	1.42	1.36	1.31	1569.7	2.42	2.43	2.43	790.1	1.57	1.51	1.49
1620.2	1650.2	1.40	1.33	1.28	1650.2	2.42	2.42	2.43	830.1	1.58	1.52	1.50
1700.7	1730.7	1.42	1.36	1.32	1730.7	2.45	2.45	2.45	890.1	1.64	1.59	1.57
1781.2	1811.2	1.46	1.40	1.38	1811.2	2.51	2.51	2.51	930.1	1.64	1.59	1.57
1861.7	1891.7	1.52	1.47	1.42	1891.7	2.57	2.57	2.57	990.1	1.65	1.60	1.59
1942.2	1972.2	1.59	1.54	1.49	1972.2	2.62	2.62	2.62	1030.1	1.62	1.59	1.57
2022.7	2052.7	1.59	1.54	1.49	2052.7	2.65	2.65	2.65	1090.1	1.55	1.52	1.51
2103.2	2133.2	1.52	1.47	1.41	2133.2	2.68	2.68	2.67	1130.1	1.58	1.56	1.56
2183.7	2213.7	1.43	1.38	1.33	2213.7	2.69	2.68	2.66	1190.1	1.52	1.52	1.52
2264.2	2294.2	1.31	1.26	1.21	2294.2	2.68	2.67	2.62	1230.1	1.49	1.49	1.49
2344.7	2374.7	1.19	1.15	1.11	2374.7	2.68	2.66	2.63	1290.1	1.47	1.48	1.49
2425.2	2455.2	1.10	1.09	1.10	2455.2	2.67	2.67	2.66	1330.1	1.46	1.47	1.48
2505.7	2535.7	1.10	1.13	1.17	2535.7	2.66	2.66	2.65	1390.1	1.46	1.49	1.50
2586.2	2616.2	1.18	1.22	1.27	2616.2	2.64	2.63	2.63	1430.1	1.43	1.46	1.48
2666.7	2696.7	1.29	1.34	1.40	2696.7	2.60	2.59	2.57	1490.1	1.50	1.54	1.56
2747.2	2777.2	1.42	1.47	1.53	2777.2	2.57	2.56	2.52	1530.1	1.49	1.53	1.55
2847.8	2877.8	1.53	1.59	1.67	2877.8	2.56	2.54	2.50	1590.1	1.55	1.59	1.62
2928.3	2958.3	1.58	1.63	1.70	2958.3	2.54	2.52	2.48	1630.1	1.64	1.69	1.71
3029.0	3059.0	1.64	1.70	1.76	3059.0	2.50	2.48	2.44	1690.1	1.73	1.78	1.81
3109.5	3139.5	1.65	1.70	1.77	3139.5	2.48	2.47	2.43	1730.1	1.78	1.84	1.86
3210.1	3240.1	1.60	1.66	1.71	3240.1	2.54	2.51	2.46	1790.1	1.91	1.97	1.99

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	32	26	34	29	63	44	58	51	55	63
1	-	28	+0	41	17	41	38	50	43	56	37	58
2	74	58	62	49	68	52	65	57	72	65	77	59
3	88	79	63	78	57	75	62	81	73	>87	76	87
4	>90	>87	>87	86	>87	84	>87	>87	>87	82	>87	84
5	>90	>87	>87	>87	>87	>87	>87	>87	86	>87	86	>87
6	>90	>87	>87	83	>87	>87	>87	>87	>87	>87	85	>87
7	89	>87	87	>87	83	>87	>87	87	>87	>87	>87	>87
8	>90	84	>87	>87	>87	>87	86	>87	86	>87	>87	>87
9	>90	>87	>87	>87	>87	>87	>87	87	>87	84	>87	>87
10	>90	82	86	>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: 1250 MHz; 5.00 dBm.
LO IN: 1280 MHz; +20.00 dBm
IF OUT: 30 MHz; -2.96 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	29	41	42	37	59	49	61	53	60	64
1	-	29	+0	42	18	42	44	51	45	59	40	70
2	54	46	50	39	55	43	58	48	61	59	73	55
3	>90	65	43	69	38	65	43	58	55	70	59	83
4	89	77	70	63	71	55	70	58	70	64	72	72
5	>90	87	76	85	67	73	62	71	65	74	72	92
6	>90	>97	90	84	81	76	76	70	77	72	80	79
7	>90	97	90	95	>97	96	83	90	80	87	87	90
8	>90	94	95	>97	>97	93	96	>97	90	88	87	89
9	>90	>97	96	>97	95	>97	>97	90	91	93	94	91
10	>90	>97	95	>97	>97	>97	95	>97	>97	>97	>97	93
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1250 MHz; 15.00 dBm.
LO IN: 1280 MHz; +20.00 dBm
IF OUT: 30 MHz; 6.82 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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