

Frequency Mixer

LAVI-ED12973/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=500MHz (dB)		
		@LO (dBm)		
		+17	+20	+23
10.1	510.1	7.56	7.42	7.34
74.1	574.1	7.30	7.19	7.09
138.1	638.1	7.10	6.96	6.86
202.1	702.1	7.06	6.92	6.81
266.1	766.1	7.05	6.91	6.81
330.1	830.1	7.01	6.87	6.78
394.1	894.1	7.06	6.91	6.79
458.1	958.1	7.05	6.88	6.76
522.1	1022.1	7.06	6.88	6.76
586.1	1086.1	7.25	7.07	6.93
650.1	1150.1	7.42	7.25	7.11
714.1	1214.1	7.49	7.32	7.18
778.1	1278.1	7.62	7.45	7.31
842.1	1342.1	7.80	7.63	7.49
906.1	1406.1	7.95	7.80	7.80
970.1	1470.1	8.06	7.93	7.82
1034.1	1534.1	8.14	8.02	7.94
1098.1	1598.1	8.22	8.11	8.02
1162.1	1662.1	8.34	8.24	8.20
1226.1	1726.1	8.33	8.23	8.16
1290.1	1790.1	8.35	8.31	8.27
1354.1	1854.1	8.33	8.18	8.13
1418.1	1918.1	8.24	8.07	7.94
1478.1	1978.1	8.28	8.10	7.94
1542.1	2042.1	8.42	8.20	8.03
1602.1	2102.1	8.43	8.18	7.98
1666.1	2166.1	8.47	8.20	7.99
1726.1	2226.1	8.67	8.39	8.15
1790.1	2290.1	8.74	8.45	8.19
1850.1	2350.1	8.73	8.42	8.18
1914.1	2414.1	8.94	8.59	8.34
1974.1	2474.1	9.00	8.63	8.36
2038.1	2538.1	8.99	8.60	8.33
2098.1	2598.1	9.26	8.81	8.50
2162.1	2662.1	9.37	8.90	8.57
2222.1	2722.1	9.44	8.98	8.63
2286.1	2786.1	9.80	9.30	8.91
2346.1	2846.1	9.99	9.50	9.09
2410.1	2910.1	10.28	9.78	9.36
2470.1	2970.1	10.75	10.20	9.76

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+17	+20	+23
10.1	510.1	22.93	25.93	29.29
74.1	574.1	25.74	27.73	28.63
138.1	638.1	25.57	27.33	29.46
202.1	702.1	25.41	27.64	29.87
266.1	766.1	25.25	27.43	29.85
330.1	830.1	25.65	28.05	30.50
394.1	894.1	26.22	28.82	31.60
458.1	958.1	26.38	29.01	31.52
522.1	1022.1	26.17	28.83	31.86
586.1	1086.1	26.32	29.14	32.19
650.1	1150.1	26.12	28.95	32.11
714.1	1214.1	25.01	28.02	31.10
778.1	1278.1	25.22	28.39	31.67
842.1	1342.1	25.21	28.64	32.47
906.1	1406.1	24.94	28.19	29.71
970.1	1470.1	24.91	28.23	31.89
1034.1	1534.1	25.87	29.40	33.33
1098.1	1598.1	26.22	29.81	34.21
1162.1	1662.1	26.70	30.04	31.98
1226.1	1726.1	27.25	30.65	32.61
1290.1	1790.1	28.07	29.11	30.91
1354.1	1854.1	27.82	30.75	32.43
1418.1	1918.1	26.99	29.80	32.46
1478.1	1978.1	26.85	29.49	32.32
1542.1	2042.1	26.16	28.90	31.24
1602.1	2102.1	25.13	28.09	31.14
1666.1	2166.1	24.86	27.98	30.92
1726.1	2226.1	24.31	27.00	30.12
1790.1	2290.1	23.34	25.90	29.05
1850.1	2350.1	22.80	25.41	28.35
1914.1	2414.1	21.87	24.59	27.35
1974.1	2474.1	21.03	23.79	26.36
2038.1	2538.1	20.79	23.35	26.07
2098.1	2598.1	20.27	22.82	25.27
2162.1	2662.1	19.72	22.24	24.79
2222.1	2722.1	19.77	22.23	24.73
2286.1	2786.1	19.47	22.00	24.27
2346.1	2846.1	19.16	21.72	24.20
2410.1	2910.1	19.31	21.96	24.46
2470.1	2970.1	18.99	21.77	24.62

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+10dBm (dB)		
		@LO (dBm)		
		+17	+20	+23
10.1	510.1	0.36	0.12	0.14
74.1	574.1	0.22	0.10	0.05
138.1	638.1	0.20	0.09	0.05
202.1	702.1	0.19	0.09	0.05
266.1	766.1	0.19	0.10	0.05
330.1	830.1	0.17	0.08	0.04
394.1	894.1	0.15	0.07	0.03
458.1	958.1	0.14	0.06	0.03
522.1	1022.1	0.12	0.05	0.02
586.1	1086.1	0.10	0.05	0.03
650.1	1150.1	0.09	0.04	0.02
714.1	1214.1	0.09	0.04	0.02
778.1	1278.1	0.09	0.04	0.02
842.1	1342.1	0.09	0.05	0.02
906.1	1406.1	0.09	0.05	0.01
970.1	1470.1	0.10	0.05	0.03
1034.1	1534.1	0.09	0.05	0.03
1098.1	1598.1	0.10	0.05	0.03
1162.1	1662.1	0.11	0.05	0.04
1226.1	1726.1	0.10	0.05	0.03
1290.1	1790.1	0.14	0.08	0.05
1354.1	1854.1	0.11	0.05	0.03
1418.1	1918.1	0.13	0.07	0.03
1478.1	1978.1	0.15	0.07	0.03
1542.1	2042.1	0.17	0.08	0.04
1602.1	2102.1	0.21	0.10	0.05
1666.1	2166.1	0.21	0.10	0.05
1726.1	2226.1	0.26	0.13	0.06
1790.1	2290.1	0.33	0.16	0.07
1850.1	2350.1	0.36	0.18	0.09
1914.1	2414.1	0.47	0.22	0.11
1974.1	2474.1	0.57	0.28	0.15
2038.1	2538.1	0.62	0.31	0.16
2098.1	2598.1	0.74	0.37	0.19
2162.1	2662.1	0.86	0.43	0.23
2222.1	2722.1	0.87	0.46	0.24
2286.1	2786.1	0.95	0.51	0.26
2346.1	2846.1	1.00	0.53	0.27
2410.1	2910.1	1.01	0.53	0.28
2470.1	2970.1	1.13	0.57	0.29

REV. X2

LAVI-ED12973/1

101012

Page 1 of 5



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Frequency Mixer

LAVI-ED12973/1

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1151MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1123.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1178.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+20			+20			+20
741.0	410.0	10.71	10.1	1134.0	8.33	770.1	408.0	10.94
702.5	448.5	9.02	50.1	1174.0	8.12	750.6	427.5	10.02
664.1	486.9	8.25	90.1	1214.0	8.15	731.1	447.0	9.19
625.6	525.4	7.88	130.1	1254.0	8.16	711.6	466.5	8.66
587.1	563.9	7.85	170.1	1294.0	8.16	692.2	485.9	8.37
548.6	602.4	7.87	210.1	1334.0	8.15	672.7	505.4	8.18
510.2	640.8	7.82	250.1	1374.0	8.16	653.2	524.9	8.00
471.7	679.3	7.85	290.1	1414.0	8.14	633.7	544.4	7.97
433.2	717.8	7.87	330.1	1454.0	8.21	614.2	563.9	7.95
394.7	756.3	7.96	370.1	1494.0	8.22	594.7	583.4	7.93
356.3	794.7	7.99	410.1	1534.0	8.19	575.2	602.9	7.95
317.8	833.2	8.04	450.1	1574.0	8.17	555.7	622.4	7.90
279.3	871.7	8.12	490.1	1614.0	8.15	536.3	641.8	7.92
240.8	910.2	8.12	530.1	1654.0	8.19	516.8	661.3	7.96
202.4	948.6	8.11	570.1	1694.0	8.20	497.3	680.8	7.90
163.9	987.1	8.11	610.1	1734.0	8.23	477.8	700.3	7.98
125.4	1025.6	8.12	650.1	1774.0	8.28	458.3	719.8	7.94
86.9	1064.1	8.15	690.1	1814.0	8.29	438.8	739.3	7.94
48.5	1102.5	8.20	730.1	1854.0	8.27	419.3	758.8	8.01
10.0	1141.0	8.44	770.1	1894.0	8.30	399.8	778.3	8.01
65.1	1216.1	8.20	810.1	1934.0	8.36	380.4	797.7	8.11
147.6	1298.6	8.25	850.1	1974.0	8.41	360.9	817.2	8.07
230.2	1381.2	8.27	890.1	2014.0	8.49	341.4	836.7	8.14
312.8	1463.8	8.30	930.1	2054.0	8.52	321.9	856.2	8.15
395.4	1546.4	8.26	970.1	2094.0	8.58	302.4	875.7	8.17
477.9	1628.9	8.23	1010.1	2134.0	8.63	282.9	895.2	8.18
560.5	1711.5	8.25	1050.1	2174.0	8.70	263.4	914.7	8.17
643.1	1794.1	8.36	1090.1	2214.0	8.86	243.9	934.2	8.19
725.7	1876.7	8.28	1130.1	2254.0	9.00	224.5	953.6	8.19
808.3	1959.3	8.33	1170.1	2294.0	9.16	205.0	973.1	8.19
890.8	2041.8	8.47	1210.1	2334.0	9.15	185.5	992.6	8.16
973.4	2124.4	8.66	1250.1	2374.0	9.25	166.0	1012.1	8.18
1056.0	2207.0	8.86	1290.1	2414.0	9.36	146.5	1031.6	8.17
1138.6	2289.6	9.11	1330.1	2454.0	9.48	127.0	1051.1	8.19
1221.2	2372.2	9.21	1370.1	2494.0	9.68	107.5	1070.6	8.27
1303.7	2454.7	9.47	1410.1	2534.0	9.85	88.0	1090.1	8.26
1358.8	2509.8	9.69	1450.1	2574.0	10.06	68.6	1109.5	8.32
1441.4	2592.4	10.08	1490.1	2614.0	10.33	49.1	1129.0	8.26
1496.4	2647.4	10.44	1530.1	2654.0	10.57	29.6	1148.5	8.24
1579.0	2730.0	11.04	1590.1	2714.0	11.01	10.1	1168.0	8.45

REV. X2

LAVI-ED12973/1

101012

Page 2 of 5



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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)		
	+17	+20	+23	+17	+20	+23
510.1	47.45	48.98	50.42	36.58	35.70	34.92
574.1	49.82	50.67	51.33	33.88	33.30	32.79
638.1	49.88	50.26	50.43	32.99	32.47	32.03
702.1	49.37	49.50	49.31	32.49	32.18	31.81
766.1	49.98	49.94	49.64	32.48	32.05	31.70
830.1	51.08	51.19	50.90	32.95	32.57	32.30
894.1	51.80	52.29	52.40	33.92	33.54	33.13
958.1	52.23	52.61	52.87	35.48	35.10	35.01
1022.1	52.92	53.12	52.95	37.94	37.56	37.41
1086.1	55.57	55.97	56.24	41.58	41.23	40.96
1150.1	60.61	60.62	60.54	44.54	44.20	44.05
1214.1	60.67	59.98	59.27	46.87	46.55	46.00
1278.1	61.26	60.35	59.40	47.93	47.92	47.47
1342.1	62.00	60.80	59.77	46.66	46.81	46.70
1406.1	59.87	58.70	62.01	44.56	44.66	44.59
1470.1	57.71	56.77	56.29	42.69	42.86	42.97
1534.1	58.12	57.78	57.95	41.12	41.36	41.53
1598.1	60.86	61.06	60.73	40.13	40.29	40.38
1662.1	56.18	56.88	54.90	39.50	39.75	40.04
1726.1	50.87	51.01	51.07	39.71	40.07	39.85
1790.1	51.15	50.20	50.55	40.77	40.75	41.04
1854.1	51.55	51.21	51.60	42.10	42.23	42.46
1918.1	53.28	53.07	53.05	43.29	43.61	43.80
1978.1	55.16	55.79	56.51	44.54	44.89	45.15
2042.1	55.04	55.32	55.84	45.98	46.16	46.66
2102.1	54.73	54.15	53.57	47.60	47.72	48.16
2166.1	57.54	56.58	55.74	49.63	49.65	49.99
2226.1	59.62	58.66	57.26	52.42	52.40	52.29
2290.1	60.35	59.14	57.52	55.72	55.08	54.30
2350.1	60.70	59.29	57.86	56.34	55.02	53.76
2414.1	61.23	59.51	58.16	52.50	51.38	50.66
2474.1	62.51	60.40	58.73	48.64	47.80	47.25
2538.1	63.31	61.22	59.89	45.90	45.23	44.81
2598.1	65.03	62.61	60.59	44.44	43.78	43.22
2662.1	66.84	64.48	62.51	43.49	42.96	42.74
2722.1	67.13	65.55	63.81	43.12	42.78	42.15
2786.1	67.96	67.84	67.40	43.00	42.73	41.97
2846.1	66.09	67.42	69.91	43.36	43.05	42.23
2910.1	63.54	64.87	67.95	43.80	43.43	42.50
2970.1	60.98	62.25	63.24	44.87	44.29	43.55

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+17	+20	+23
10.1	510.1	48.05	39.32	35.66
74.1	574.1	49.71	46.00	41.11
138.1	638.1	49.22	43.31	36.96
202.1	702.1	41.73	50.00	44.69
266.1	766.1	40.82	47.69	55.05
330.1	830.1	39.62	46.39	46.52
394.1	894.1	35.87	38.70	42.99
458.1	958.1	34.66	36.31	39.20
522.1	1022.1	36.52	39.32	47.58
586.1	1086.1	36.97	39.68	48.24
650.1	1150.1	37.62	40.13	45.94
714.1	1214.1	38.24	41.52	59.41
778.1	1278.1	38.47	41.18	47.07
842.1	1342.1	40.02	43.47	50.80
906.1	1406.1	41.12	46.37	50.71
970.1	1470.1	39.63	43.13	50.74
1034.1	1534.1	38.13	40.49	43.91
1098.1	1598.1	36.88	38.93	41.96
1162.1	1662.1	35.72	37.27	38.30
1226.1	1726.1	35.13	36.65	43.56
1290.1	1790.1	32.44	32.58	33.38
1354.1	1854.1	33.18	36.44	42.14
1418.1	1918.1	33.20	34.68	36.54
1478.1	1978.1	33.26	34.41	35.57
1542.1	2042.1	33.35	34.58	35.54
1602.1	2102.1	33.46	34.83	36.77
1666.1	2166.1	33.65	34.96	35.98
1726.1	2226.1	34.06	35.41	36.80
1790.1	2290.1	34.12	35.36	36.33
1850.1	2350.1	34.35	35.68	37.09
1914.1	2414.1	34.25	35.56	36.61
1974.1	2474.1	34.36	35.52	36.36
2038.1	2538.1	34.99	36.26	37.08
2098.1	2598.1	35.20	36.36	36.06
2162.1	2662.1	35.74	37.03	38.08
2222.1	2722.1	36.53	37.81	38.09
2286.1	2786.1	37.00	38.32	37.70
2346.1	2846.1	37.94	39.49	40.52
2410.1	2910.1	39.32	41.04	42.26
2470.1	2970.1	40.51	42.38	44.16

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=2050.1001MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+17	+20	+23		+17	+20	+23		+17	+20	+23
10.1	510.1	1.33	1.38	1.40	510.1	4.09	4.09	4.08	10.1	2.12	2.27	2.41
74.1	574.1	1.22	1.27	1.31	574.1	4.21	4.22	4.21	50.6	2.10	2.25	2.39
138.1	638.1	1.19	1.23	1.27	638.1	4.24	4.24	4.23	91.0	2.03	2.17	2.30
202.1	702.1	1.23	1.25	1.27	702.1	4.18	4.18	4.15	131.5	2.03	2.16	2.29
266.1	766.1	1.31	1.32	1.33	766.1	4.10	4.10	4.09	171.9	1.93	2.06	2.18
330.1	830.1	1.39	1.39	1.39	830.1	4.01	4.01	4.00	212.4	1.92	2.04	2.16
394.1	894.1	1.51	1.48	1.47	894.1	3.88	3.86	3.84	252.9	1.82	1.93	2.04
458.1	958.1	1.69	1.65	1.63	958.1	3.78	3.78	3.77	293.3	1.78	1.89	1.99
522.1	1022.1	1.89	1.85	1.81	1022.1	3.66	3.66	3.65	333.8	1.70	1.80	1.89
586.1	1086.1	2.15	2.11	2.07	1086.1	3.52	3.50	3.48	374.2	1.62	1.71	1.80
650.1	1150.1	2.39	2.34	2.30	1150.1	3.41	3.40	3.40	414.7	1.55	1.64	1.73
714.1	1214.1	2.54	2.50	2.46	1214.1	3.29	3.28	3.28	455.2	1.45	1.53	1.61
778.1	1278.1	2.66	2.61	2.57	1278.1	3.14	3.13	3.10	495.6	1.41	1.49	1.56
842.1	1342.1	2.75	2.71	2.67	1342.1	3.02	3.02	3.02	536.1	1.31	1.38	1.44
906.1	1406.1	2.75	2.73	2.63	1406.1	2.91	2.92	2.81	576.5	1.27	1.34	1.40
970.1	1470.1	2.65	2.62	2.61	1470.1	2.79	2.80	2.80	617.0	1.19	1.25	1.30
1034.1	1534.1	2.49	2.47	2.46	1534.1	2.71	2.72	2.72	657.5	1.15	1.21	1.26
1098.1	1598.1	2.34	2.32	2.31	1598.1	2.66	2.68	2.69	697.9	1.11	1.17	1.22
1162.1	1662.1	2.15	2.13	2.11	1662.1	2.62	2.64	2.63	738.4	1.07	1.12	1.17
1226.1	1726.1	1.93	1.90	1.88	1726.1	2.61	2.62	2.62	778.8	1.08	1.13	1.18
1290.1	1790.1	1.80	1.75	1.72	1790.1	2.65	2.66	2.66	819.3	1.09	1.12	1.16
1354.1	1854.1	1.77	1.69	1.65	1854.1	2.68	2.69	2.70	859.8	1.12	1.15	1.19
1418.1	1918.1	1.83	1.75	1.68	1918.1	2.71	2.71	2.69	900.2	1.17	1.19	1.22
1478.1	1978.1	1.82	1.74	1.67	1978.1	2.75	2.75	2.75	960.9	1.21	1.24	1.27
1542.1	2042.1	1.80	1.72	1.66	2042.1	2.77	2.77	2.78	1001.4	1.24	1.28	1.32
1602.1	2102.1	1.82	1.74	1.66	2102.1	2.78	2.76	2.73	1062.1	1.32	1.36	1.41
1666.1	2166.1	1.82	1.74	1.68	2166.1	2.80	2.81	2.80	1102.5	1.36	1.41	1.46
1726.1	2226.1	1.80	1.73	1.66	2226.1	2.81	2.82	2.81	1163.2	1.46	1.52	1.57
1790.1	2290.1	1.77	1.70	1.63	2290.1	2.78	2.78	2.73	1203.7	1.56	1.62	1.68
1850.1	2350.1	1.70	1.63	1.57	2350.1	2.78	2.80	2.80	1264.4	1.66	1.73	1.79
1914.1	2414.1	1.64	1.58	1.52	2414.1	2.76	2.78	2.77	1304.8	1.72	1.79	1.85
1974.1	2474.1	1.58	1.51	1.45	2474.1	2.72	2.73	2.70	1365.5	1.86	1.94	2.01
2038.1	2538.1	1.50	1.44	1.37	2538.1	2.72	2.73	2.73	1406.0	1.97	2.05	2.13
2098.1	2598.1	1.45	1.38	1.32	2598.1	2.68	2.68	2.64	1466.7	2.11	2.20	2.28
2162.1	2662.1	1.38	1.32	1.26	2662.1	2.66	2.65	2.61	1507.1	2.25	2.34	2.43
2222.1	2722.1	1.33	1.27	1.22	2722.1	2.65	2.65	2.63	1567.8	2.45	2.55	2.64
2286.1	2786.1	1.28	1.23	1.18	2786.1	2.60	2.58	2.54	1608.3	2.57	2.68	2.77
2346.1	2846.1	1.25	1.22	1.20	2846.1	2.58	2.56	2.53	1669.0	2.79	2.90	2.98
2410.1	2910.1	1.27	1.25	1.26	2910.1	2.55	2.53	2.52	1709.4	3.07	3.18	3.28
2470.1	2970.1	1.28	1.28	1.31	2970.1	2.50	2.46	2.43	1770.1	3.35	3.46	3.56

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	12	8	23	20	30	45	28	52	39	45
1	-	32	+0	39	23	43	41	60	43	54	52	54
2	83	67	65	75	73	65	>82	63	>82	>82	61	71
3	>90	>82	77	80	71	>82	79	>82	>82	>82	81	>82
4	>90	>82	>82	>82	>82	>82	79	>82	>82	>82	>82	>82
5	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
6	>90	>82	>82	80	82	>82	>82	>82	>82	>82	79	>82
7	88	>82	>82	>82	76	>82	>82	>82	>82	>82	>82	>82
8	>90	>82	81	80	>82	>82	>82	>82	>82	80	>82	80
9	87	>82	>82	81	>82	>82	>82	>82	>82	>82	>82	>82
10	>90	80	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1151 MHz; 0.00 dBm.
LO IN: 1651 MHz; +20.00 dBm
IF OUT: 500 MHz; -8.18 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	23	18	33	30	40	50	40	59	52	57
1	-	32	+0	39	23	43	42	61	44	54	53	55
2	62	57	53	65	61	55	69	55	68	76	54	66
3	>90	76	51	74	49	81	69	75	73	69	63	73
4	>90	78	91	89	78	85	85	87	90	83	>92	75
5	>90	86	85	>92	79	90	84	88	89	88	87	86
6	>90	92	>92	91	>92	>92	>92	>92	>92	>92	91	91
7	88	>92	>92	>92	>92	>92	87	90	>92	>92	91	>92
8	>90	>92	>92	>92	>92	>92	>92	>92	89	89	>92	91
9	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	91	>92
10	90	>92	>92	91	>92	>92	>92	>92	>92	>92	>92	>92
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1151 MHz; 10.00 dBm.
LO IN: 1651 MHz; +20.00 dBm
IF OUT: 500 MHz; 1.77 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.

REV. X2
LAVI-ED12973/1
101012
Page 5 of 5