

Frequency Mixer

LAVI-ED12538A/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=70MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
150.1	80.1	10.44	10.25	10.16
218.1	148.1	9.10	8.86	8.68
286.1	216.1	8.69	8.45	8.29
354.1	284.1	8.40	8.18	8.02
422.1	352.1	8.27	8.05	7.89
490.1	420.1	7.94	7.72	7.56
558.1	488.1	7.51	7.28	7.11
626.1	556.1	7.23	6.99	6.82
694.1	624.1	7.03	6.80	6.63
762.1	692.1	7.12	6.89	6.72
830.1	760.1	7.17	6.94	6.77
898.1	828.1	7.25	7.01	6.85
966.1	896.1	7.41	7.18	7.01
1034.1	964.1	7.90	7.68	7.53
1102.1	1032.1	9.43	9.23	9.08
1170.1	1100.1	8.38	8.00	7.71
1238.1	1168.1	7.92	7.65	7.46
1306.1	1236.1	7.82	7.58	7.41
1374.1	1304.1	7.87	7.64	7.48
1442.1	1372.1	7.96	7.74	7.60
1510.1	1440.1	7.96	7.75	7.61
1578.1	1508.1	8.03	7.83	7.70
1646.1	1576.1	8.17	7.95	7.81
1714.1	1644.1	8.34	8.11	7.96
1782.1	1712.1	8.44	8.22	8.07
1850.1	1780.1	8.51	8.27	8.11
1922.1	1852.1	8.70	8.43	8.25
1990.1	1920.1	8.84	8.52	8.32
2062.1	1992.1	8.99	8.62	8.41
2130.1	2060.1	9.09	8.70	8.46
2202.1	2132.1	9.30	8.88	8.59
2270.1	2200.1	9.51	9.02	8.68
2342.1	2272.1	9.64	9.09	8.76
2410.1	2340.1	9.74	9.16	8.80
2482.1	2412.1	9.97	9.31	8.89
2550.1	2480.1	10.16	9.43	8.95
2622.1	2552.1	10.29	9.51	9.02
2690.1	2620.1	10.49	9.68	9.15
2762.1	2692.1	10.87	9.95	9.37
2830.1	2760.1	11.26	10.15	9.55

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
150.1	80.1	16.46	17.88	19.13
218.1	148.1	18.88	21.23	22.87
286.1	216.1	19.78	21.87	23.70
354.1	284.1	20.58	22.48	24.54
422.1	352.1	20.87	22.91	25.00
490.1	420.1	21.20	23.72	26.42
558.1	488.1	21.52	24.15	26.77
626.1	556.1	22.74	25.49	28.54
694.1	624.1	24.11	27.13	29.58
762.1	692.1	24.89	27.71	29.98
830.1	760.1	25.01	27.65	30.00
898.1	828.1	24.95	27.62	30.19
966.1	896.1	23.55	25.82	28.50
1034.1	964.1	21.36	23.33	25.80
1102.1	1032.1	24.77	27.95	31.17
1170.1	1100.1	22.92	26.95	30.42
1238.1	1168.1	21.85	24.84	28.06
1306.1	1236.1	22.39	25.08	28.13
1374.1	1304.1	22.69	25.47	28.68
1442.1	1372.1	23.03	25.87	29.10
1510.1	1440.1	23.43	26.32	29.88
1578.1	1508.1	23.68	26.64	30.39
1646.1	1576.1	23.74	26.65	30.31
1714.1	1644.1	23.62	26.39	29.77
1782.1	1712.1	23.55	26.49	30.07
1850.1	1780.1	22.94	25.90	29.33
1922.1	1852.1	22.21	25.14	28.31
1990.1	1920.1	21.24	24.43	27.51
2062.1	1992.1	20.33	23.66	26.67
2130.1	2060.1	19.68	23.03	26.18
2202.1	2132.1	18.88	22.05	25.23
2270.1	2200.1	17.80	20.99	24.29
2342.1	2272.1	17.10	20.47	23.55
2410.1	2340.1	16.65	20.01	23.22
2482.1	2412.1	15.80	19.13	22.45
2550.1	2480.1	14.94	18.05	21.38
2622.1	2552.1	14.61	17.66	21.03
2690.1	2620.1	14.34	17.21	20.62
2762.1	2692.1	13.75	16.63	19.73
2830.1	2760.1	13.32	16.05	19.17

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+17dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
150.1	80.1	2.99	2.22	1.34
218.1	148.1	3.01	1.88	1.12
286.1	216.1	2.67	1.52	0.88
354.1	284.1	2.27	1.23	0.70
422.1	352.1	1.96	1.06	0.61
490.1	420.1	1.94	1.08	0.62
558.1	488.1	1.94	1.10	0.62
626.1	556.1	1.73	0.88	0.43
694.1	624.1	1.65	0.80	0.39
762.1	692.1	1.63	0.75	0.34
830.1	760.1	1.51	0.67	0.30
898.1	828.1	1.43	0.61	0.27
966.1	896.1	1.45	0.66	0.30
1034.1	964.1	1.45	0.79	0.47
1102.1	1032.1	1.04	0.57	0.28
1170.1	1100.1	2.75	1.55	0.56
1238.1	1168.1	2.33	1.23	0.48
1306.1	1236.1	1.77	0.82	0.36
1374.1	1304.1	1.60	0.74	0.33
1442.1	1372.1	1.46	0.66	0.31
1510.1	1440.1	1.36	0.61	0.28
1578.1	1508.1	1.34	0.61	0.28
1646.1	1576.1	1.47	0.65	0.30
1714.1	1644.1	1.61	0.72	0.33
1782.1	1712.1	1.74	0.79	0.33
1850.1	1780.1	1.99	0.94	0.40
1922.1	1852.1	2.41	1.19	0.52
1990.1	1920.1	2.89	1.47	0.66
2062.1	1992.1	3.46	1.85	0.87
2130.1	2060.1	3.79	2.13	1.00
2202.1	2132.1	4.21	2.58	1.27
2270.1	2200.1	4.85	3.10	1.64
2342.1	2272.1	5.28	3.44	1.96
2410.1	2340.1	5.59	3.73	2.13
2482.1	2412.1	6.08	4.25	2.48
2550.1	2480.1	6.48	4.74	2.90
2622.1	2552.1	6.71	4.93	3.06
2690.1	2620.1	6.81	5.11	3.15
2762.1	2692.1	7.14	5.54	3.61
2830.1	2760.1	7.36	5.64	3.84

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Frequency Mixer

LAVI-ED12538A/1

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1600MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1553.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1646.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
1210.0	390.0	10.29	10.1	1564.0	7.96	610.1	1036.0	10.21
1146.8	453.2	9.65	30.1	1584.0	7.88	594.7	1051.4	10.11
1083.7	516.3	9.16	50.1	1604.0	7.86	579.3	1066.8	9.87
1020.5	579.5	8.66	70.1	1624.0	7.96	563.9	1082.2	9.59
957.4	642.6	8.47	90.1	1644.0	7.96	548.6	1097.5	9.22
894.2	705.8	8.27	110.1	1664.0	8.00	533.2	1112.9	8.82
831.1	768.9	8.29	130.1	1684.0	8.03	517.8	1128.3	8.49
767.9	832.1	8.14	150.1	1704.0	8.04	502.4	1143.7	8.28
704.7	895.3	8.21	190.1	1744.0	8.10	487.0	1159.1	8.14
641.6	958.4	8.77	210.1	1764.0	8.15	471.6	1174.5	8.05
578.4	1021.6	9.64	250.1	1804.0	8.19	456.3	1189.8	8.00
515.3	1084.7	9.00	270.1	1824.0	8.24	440.9	1205.2	7.92
452.1	1147.9	8.07	310.1	1864.0	8.28	425.5	1220.6	7.89
388.9	1211.1	7.90	330.1	1884.0	8.27	410.1	1236.0	7.91
325.8	1274.2	7.85	370.1	1924.0	8.35	394.7	1251.4	7.91
262.6	1337.4	7.86	390.1	1944.0	8.37	379.3	1266.8	7.90
199.5	1400.5	7.83	430.1	1984.0	8.36	363.9	1282.2	7.88
136.3	1463.7	7.90	450.1	2004.0	8.48	348.6	1297.5	7.89
73.2	1526.8	7.86	490.1	2044.0	8.55	333.2	1312.9	7.88
10.0	1590.0	8.08	510.1	2064.0	8.57	317.8	1328.3	7.86
48.2	1648.2	7.99	550.1	2104.0	8.74	302.4	1343.7	7.90
105.6	1705.6	8.10	570.1	2124.0	8.77	287.0	1359.1	7.90
163.0	1763.0	8.15	610.1	2164.0	8.84	271.6	1374.5	7.90
220.4	1820.4	8.24	630.1	2184.0	8.97	256.3	1389.8	7.91
277.7	1877.7	8.30	670.1	2224.0	9.04	240.9	1405.2	7.90
335.1	1935.1	8.39	690.1	2244.0	9.06	225.5	1420.6	7.89
392.5	1992.5	8.47	730.1	2284.0	9.22	210.1	1436.0	7.90
449.8	2049.8	8.54	750.1	2304.0	9.25	194.7	1451.4	7.91
507.2	2107.2	8.73	790.1	2344.0	9.28	179.3	1466.8	7.89
564.6	2164.6	8.87	810.1	2364.0	9.35	163.9	1482.2	7.92
621.9	2221.9	9.00	850.1	2404.0	9.48	148.6	1497.5	7.92
679.3	2279.3	9.17	870.1	2424.0	9.50	133.2	1512.9	7.93
736.7	2336.7	9.26	910.1	2464.0	9.64	117.8	1528.3	7.96
794.0	2394.0	9.44	930.1	2484.0	9.69	102.4	1543.7	7.97
851.4	2451.4	9.54	970.1	2524.0	9.75	87.0	1559.1	7.97
908.8	2508.8	9.65	990.1	2544.0	9.81	71.6	1574.5	7.96
947.0	2547.0	9.77	1030.1	2584.0	9.98	56.3	1589.8	7.95
1004.4	2604.4	9.94	1050.1	2604.0	10.05	40.9	1605.2	7.93
1042.6	2642.6	10.06	1090.1	2644.0	10.12	25.5	1620.6	7.94
1100.0	2700.0	10.26	1110.1	2664.0	10.22	10.1	1636.0	8.06

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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)		
	+14	+17	+20	+14	+17	+20
80.1	32.39	32.42	32.56	40.22	40.57	40.96
148.1	28.89	28.96	28.97	36.16	36.50	36.62
216.1	27.81	27.81	27.88	34.97	35.13	35.24
284.1	27.62	27.70	27.76	34.97	35.16	35.21
352.1	28.25	28.35	28.43	35.20	35.32	35.35
420.1	30.03	30.16	30.20	36.87	36.96	36.97
488.1	33.01	33.19	33.34	39.97	40.01	40.00
556.1	37.28	37.51	37.67	46.47	46.30	45.90
624.1	40.66	41.01	41.33	51.30	50.10	49.39
692.1	44.33	44.76	44.97	53.73	52.60	52.07
760.1	48.82	49.36	49.73	52.39	51.24	50.87
828.1	55.75	57.17	58.26	62.89	59.72	58.08
896.1	57.31	58.49	59.30	51.19	50.74	49.94
964.1	52.68	52.87	53.07	40.59	40.32	39.96
1032.1	49.18	49.09	49.26	37.45	37.86	38.28
1100.1	55.05	56.61	58.37	41.85	42.79	43.68
1168.1	77.23	76.02	70.55	46.58	48.07	49.63
1236.1	63.71	60.14	58.99	47.06	48.14	49.33
1304.1	61.64	58.67	57.67	45.89	46.64	47.52
1372.1	65.85	61.54	60.38	44.42	45.00	45.74
1440.1	79.47	73.24	69.61	42.82	43.26	43.76
1508.1	60.11	62.36	62.50	41.65	42.03	42.51
1576.1	55.72	56.62	56.23	40.96	41.37	41.97
1644.1	53.94	54.56	54.00	40.97	41.46	42.11
1712.1	53.51	54.21	53.83	41.42	42.00	42.66
1780.1	53.12	53.56	53.21	41.46	42.10	42.70
1852.1	52.98	53.07	52.59	40.76	41.29	41.74
1920.1	53.40	52.95	52.56	39.91	40.14	40.66
1992.1	53.46	52.93	52.45	39.57	39.66	40.06
2060.1	53.17	52.34	51.64	39.20	39.34	39.59
2132.1	53.07	52.02	50.94	38.78	39.03	39.27
2200.1	54.36	52.86	51.42	38.52	38.77	39.01
2272.1	55.90	53.76	52.59	38.34	38.47	38.83
2340.1	58.08	55.79	54.19	38.32	38.48	38.81
2412.1	61.00	58.74	56.71	38.36	38.54	38.73
2480.1	62.56	61.73	59.57	38.42	38.71	38.96
2552.1	64.13	63.94	62.16	38.65	38.93	39.14
2620.1	64.66	66.95	66.20	38.87	39.21	39.45
2692.1	63.07	65.67	65.79	39.10	39.45	39.68
2760.1	61.26	63.04	62.77	39.30	39.44	39.89

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
150.1	80.1	24.31	23.16	22.62
218.1	148.1	25.95	26.14	26.92
286.1	216.1	26.34	26.57	27.13
354.1	284.1	27.92	28.09	28.47
422.1	352.1	30.88	31.26	31.85
490.1	420.1	31.54	31.04	30.92
558.1	488.1	30.08	29.30	28.97
626.1	556.1	29.95	29.02	28.39
694.1	624.1	32.32	31.77	31.54
762.1	692.1	34.18	33.93	33.97
830.1	760.1	36.02	35.77	35.64
898.1	828.1	37.35	37.12	36.86
966.1	896.1	38.78	38.64	38.53
1034.1	964.1	38.73	38.48	38.14
1102.1	1032.1	39.01	38.79	38.12
1170.1	1100.1	38.89	38.86	38.19
1238.1	1168.1	38.91	38.77	38.27
1306.1	1236.1	38.78	38.52	37.85
1374.1	1304.1	38.78	38.54	37.93
1442.1	1372.1	38.93	38.85	38.45
1510.1	1440.1	38.39	38.27	37.87
1578.1	1508.1	38.02	37.85	37.40
1646.1	1576.1	37.50	37.36	36.98
1714.1	1644.1	37.58	37.40	36.98
1782.1	1712.1	37.24	37.04	36.64
1850.1	1780.1	37.13	36.89	36.40
1922.1	1852.1	37.26	37.01	36.44
1990.1	1920.1	37.71	37.41	36.80
2062.1	1992.1	38.01	37.65	37.05
2130.1	2060.1	38.33	37.90	37.13
2202.1	2132.1	38.48	37.91	36.93
2270.1	2200.1	39.04	38.34	37.13
2342.1	2272.1	39.58	38.71	37.40
2410.1	2340.1	40.16	39.37	37.89
2482.1	2412.1	40.57	40.03	38.35
2550.1	2480.1	40.79	40.70	38.95
2622.1	2552.1	40.87	41.26	39.77
2690.1	2620.1	40.78	41.54	40.39
2762.1	2692.1	40.61	41.78	41.11
2830.1	2760.1	40.68	42.12	41.71

Frequency Mixer

LAVI-ED12538A/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1531MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
80.1	10.1	1.14	1.14	1.13	80.1	7.90	7.90	7.76	10.1	1.42	1.52	1.62
148.1	78.1	1.25	1.25	1.26	148.1	6.07	6.05	6.05	50.1	1.41	1.52	1.61
216.1	146.1	1.33	1.34	1.34	216.1	4.93	4.91	4.89	90.1	1.41	1.51	1.60
284.1	214.1	1.41	1.41	1.42	284.1	4.16	4.15	4.14	130.1	1.39	1.48	1.56
352.1	282.1	1.45	1.45	1.45	352.1	3.60	3.60	3.59	170.1	1.39	1.48	1.56
420.1	350.1	1.50	1.49	1.48	420.1	3.38	3.38	3.38	210.1	1.35	1.43	1.50
488.1	418.1	1.55	1.53	1.51	488.1	3.52	3.52	3.52	250.1	1.34	1.41	1.47
556.1	486.1	1.61	1.58	1.56	556.1	3.77	3.78	3.78	290.1	1.31	1.37	1.43
624.1	554.1	1.71	1.67	1.64	624.1	3.95	3.95	3.95	330.1	1.29	1.32	1.37
692.1	622.1	1.84	1.79	1.76	692.1	4.00	4.00	3.99	370.1	1.27	1.30	1.34
760.1	690.1	1.98	1.93	1.88	760.1	3.95	3.95	3.95	410.1	1.23	1.23	1.25
828.1	758.1	2.10	2.04	1.99	828.1	3.83	3.83	3.83	450.1	1.24	1.22	1.23
896.1	826.1	2.21	2.14	2.08	896.1	3.62	3.61	3.60	490.1	1.21	1.17	1.16
964.1	894.1	2.26	2.19	2.13	964.1	3.23	3.22	3.22	530.1	1.26	1.20	1.17
1032.1	962.1	2.09	2.01	1.95	1032.1	2.68	2.69	2.71	570.1	1.25	1.18	1.13
1100.1	1030.1	1.48	1.43	1.39	1100.1	2.95	2.97	2.98	610.1	1.33	1.25	1.18
1168.1	1098.1	1.74	1.71	1.68	1168.1	2.95	2.95	2.95	650.1	1.32	1.23	1.17
1236.1	1166.1	2.06	2.01	1.97	1236.1	2.81	2.82	2.82	690.1	1.38	1.30	1.24
1304.1	1234.1	2.00	1.95	1.91	1304.1	2.66	2.67	2.67	730.1	1.39	1.31	1.26
1372.1	1302.1	1.91	1.86	1.82	1372.1	2.53	2.53	2.53	770.1	1.45	1.38	1.34
1440.1	1370.1	1.80	1.75	1.71	1440.1	2.44	2.44	2.44	810.1	1.49	1.43	1.39
1508.1	1438.1	1.71	1.66	1.62	1508.1	2.39	2.41	2.42	850.1	1.53	1.48	1.45
1576.1	1506.1	1.63	1.58	1.54	1576.1	2.39	2.40	2.42	890.1	1.61	1.56	1.53
1644.1	1574.1	1.57	1.52	1.48	1644.1	2.43	2.44	2.44	930.1	1.61	1.58	1.56
1712.1	1642.1	1.52	1.46	1.42	1712.1	2.48	2.49	2.50	970.1	1.70	1.68	1.66
1780.1	1710.1	1.47	1.41	1.37	1780.1	2.57	2.58	2.59	1010.1	1.70	1.68	1.68
1852.1	1782.1	1.41	1.35	1.31	1852.1	2.66	2.67	2.67	1050.1	1.77	1.77	1.77
1920.1	1850.1	1.37	1.31	1.26	1920.1	2.73	2.73	2.73	1090.1	1.79	1.79	1.80
1992.1	1922.1	1.35	1.28	1.23	1992.1	2.80	2.80	2.78	1130.1	1.83	1.84	1.85
2060.1	1990.1	1.34	1.26	1.21	2060.1	2.86	2.86	2.86	1170.1	1.83	1.84	1.86
2132.1	2062.1	1.31	1.24	1.19	2132.1	2.92	2.92	2.91	1210.1	1.84	1.86	1.89
2200.1	2130.1	1.29	1.24	1.18	2200.1	2.95	2.94	2.92	1250.1	1.84	1.88	1.91
2272.1	2202.1	1.27	1.22	1.17	2272.1	2.98	2.97	2.95	1290.1	1.86	1.90	1.94
2340.1	2270.1	1.23	1.19	1.15	2340.1	2.98	2.98	2.98	1330.1	1.86	1.90	1.95
2412.1	2342.1	1.19	1.16	1.14	2412.1	2.98	2.97	2.96	1370.1	1.89	1.95	2.00
2480.1	2410.1	1.14	1.11	1.10	2480.1	2.95	2.94	2.91	1390.1	1.92	1.98	2.03
2552.1	2482.1	1.09	1.09	1.10	2552.1	2.92	2.92	2.91	1430.1	1.89	1.95	2.00
2620.1	2550.1	1.09	1.11	1.15	2620.1	2.90	2.90	2.89	1450.1	1.94	2.00	2.06
2692.1	2622.1	1.15	1.18	1.23	2692.1	2.85	2.84	2.83	1490.1	1.94	2.01	2.07
2760.1	2690.1	1.25	1.29	1.33	2760.1	2.82	2.81	2.79	1510.1	1.98	2.05	2.11

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	18	19	36	31	35	38	42	54	41	66
1	-	29	+0	43	19	42	31	50	40	47	42	61
2	57	59	70	53	68	57	>82	59	77	64	81	64
3	>90	>82	69	>82	63	>82	71	>82	77	>82	81	>82
4	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
5	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
6	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
7	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
8	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
9	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
10	>90	>82	>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: 1600 MHz; 0.00 dBm.
LO IN: 1530 MHz; +17.00 dBm
IF OUT: 70 MHz; -8.01 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	28	30	45	39	44	44	50	59	54	79
1	-	29	+0	44	19	43	32	53	42	48	44	64
2	37	47	56	42	54	47	62	49	73	57	65	56
3	71	70	47	69	41	63	49	61	55	69	62	86
4	89	82	84	69	77	62	71	65	76	68	83	75
5	>90	>92	>92	>92	80	85	71	80	79	82	81	91
6	>90	>92	>92	>92	88	84	88	78	85	84	90	87
7	>90	>92	>92	>92	>92	>92	>92	>92	85	>92	>92	>92
8	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	92	>92
9	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	92	>92
10	>90	>92	>92	>92	>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: 1600 MHz; 10.00 dBm.
LO IN: 1530 MHz; +17.00 dBm
IF OUT: 70 MHz; 1.87 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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