

Frequency Mixer

LAVI-ED12678/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
30.1	60.1	8.24	7.29	6.82
90.1	120.1	7.45	7.06	6.80
170.1	200.1	7.70	7.43	7.25
250.1	280.1	7.23	7.01	6.85
330.1	360.1	7.13	6.93	6.78
410.1	440.1	7.30	7.11	6.96
490.1	520.1	7.33	7.12	6.97
570.1	600.1	7.48	7.28	7.13
650.1	680.1	7.53	7.32	7.17
730.1	760.1	7.48	7.27	7.11
810.1	840.1	7.58	7.37	7.22
890.1	920.1	7.58	7.36	7.20
970.1	1000.1	7.65	7.43	7.27
1070.1	1100.1	7.69	7.47	7.30
1150.1	1180.1	7.73	7.50	7.33
1250.1	1280.1	7.88	7.66	7.49
1330.1	1360.1	7.68	7.45	7.28
1430.1	1460.1	7.57	7.35	7.17
1510.1	1540.1	7.51	7.29	7.12
1610.1	1640.1	7.49	7.27	7.10
1690.1	1720.1	7.47	7.26	7.10
1790.1	1820.1	7.51	7.30	7.15
1870.1	1900.1	7.58	7.38	7.23
1970.1	2000.1	7.69	7.49	7.35
2050.1	2080.1	7.89	7.70	7.57
2150.1	2180.1	8.07	7.87	7.74
2230.1	2260.1	8.27	8.08	7.96
2330.1	2360.1	8.55	8.36	8.22
2410.1	2440.1	8.78	8.56	8.44
2510.1	2540.1	9.12	8.88	8.75
2590.1	2620.1	9.32	9.05	8.91
2690.1	2720.1	9.70	9.40	9.22
2770.1	2800.1	10.00	9.66	9.44
2870.1	2900.1	10.53	10.11	9.85
2950.1	2980.1	10.94	10.43	10.16
3050.1	3080.1	11.59	10.99	10.63
3130.1	3160.1	12.06	11.34	10.92
3230.1	3260.1	12.64	11.76	11.25
3310.1	3340.1	13.22	12.16	11.51
3410.1	3440.1	13.65	12.52	11.74

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
30.1	60.1	10.57	12.83	16.47
90.1	120.1	14.10	17.57	21.11
170.1	200.1	17.84	21.29	24.63
250.1	280.1	22.12	24.86	27.25
330.1	360.1	23.22	25.57	27.59
410.1	440.1	23.71	26.09	28.38
490.1	520.1	23.97	26.52	28.87
570.1	600.1	23.94	26.65	29.16
650.1	680.1	23.92	26.65	29.20
730.1	760.1	24.25	27.30	30.16
810.1	840.1	24.49	27.75	30.84
890.1	920.1	24.61	28.03	31.26
970.1	1000.1	25.04	28.47	31.83
1070.1	1100.1	24.93	28.14	31.44
1150.1	1180.1	24.33	27.34	30.29
1250.1	1280.1	24.26	27.35	30.69
1330.1	1360.1	25.27	28.61	32.46
1430.1	1460.1	25.17	28.49	32.19
1510.1	1540.1	25.12	28.28	32.02
1610.1	1640.1	24.59	27.46	30.58
1690.1	1720.1	24.34	27.10	30.00
1790.1	1820.1	24.22	26.89	29.59
1870.1	1900.1	24.16	26.85	29.32
1970.1	2000.1	23.95	26.59	29.32
2050.1	2080.1	24.04	26.96	29.78
2150.1	2180.1	23.67	26.88	30.11
2230.1	2260.1	23.68	26.81	30.25
2330.1	2360.1	23.25	26.47	30.07
2410.1	2440.1	22.95	26.43	29.84
2510.1	2540.1	22.37	25.84	29.10
2590.1	2620.1	21.64	25.16	28.62
2690.1	2720.1	20.68	24.07	27.77
2770.1	2800.1	19.81	23.29	26.88
2870.1	2900.1	18.57	22.21	25.91
2950.1	2980.1	17.73	21.63	25.02
3050.1	3080.1	16.89	20.53	24.21
3130.1	3160.1	16.34	19.70	23.56
3230.1	3260.1	15.62	18.43	22.39
3310.1	3340.1	15.24	17.37	21.14
3410.1	3440.1	15.05	16.61	19.75

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+15dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
30.1	60.1	9.16	7.53	5.41
90.1	120.1	7.02	4.69	2.63
170.1	200.1	4.50	2.39	1.06
250.1	280.1	1.62	0.73	0.34
330.1	360.1	1.08	0.49	0.24
410.1	440.1	0.89	0.42	0.20
490.1	520.1	0.87	0.41	0.20
570.1	600.1	0.88	0.42	0.20
650.1	680.1	0.89	0.42	0.20
730.1	760.1	0.90	0.42	0.21
810.1	840.1	0.88	0.41	0.19
890.1	920.1	0.90	0.41	0.19
970.1	1000.1	0.89	0.38	0.17
1070.1	1100.1	0.91	0.39	0.17
1150.1	1180.1	1.01	0.43	0.19
1250.1	1280.1	1.05	0.47	0.22
1330.1	1360.1	0.85	0.36	0.16
1430.1	1460.1	0.86	0.35	0.15
1510.1	1540.1	0.82	0.33	0.14
1610.1	1640.1	0.80	0.34	0.15
1690.1	1720.1	0.78	0.34	0.16
1790.1	1820.1	0.79	0.35	0.16
1870.1	1900.1	0.80	0.35	0.17
1970.1	2000.1	0.88	0.40	0.19
2050.1	2080.1	0.89	0.39	0.18
2150.1	2180.1	1.07	0.45	0.20
2230.1	2260.1	1.08	0.47	0.21
2330.1	2360.1	1.19	0.51	0.23
2410.1	2440.1	1.30	0.51	0.23
2510.1	2540.1	1.59	0.61	0.27
2590.1	2620.1	1.93	0.75	0.32
2690.1	2720.1	2.37	1.01	0.40
2770.1	2800.1	2.77	1.25	0.48
2870.1	2900.1	3.22	1.62	0.61
2950.1	2980.1	3.53	1.78	0.75
3050.1	3080.1	3.78	2.18	0.94
3130.1	3160.1	3.91	2.41	1.12
3230.1	3260.1	3.97	2.62	1.39
3310.1	3340.1	4.03	2.85	1.69
3410.1	3440.1	3.92	2.88	1.89

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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)=1300.1MHz (dB)
		@LO (dBm)
		+17
1290.0	10.1	16.91
1260.0	40.1	9.36
1230.0	70.1	8.85
1200.0	100.1	8.58
1170.0	130.1	8.52
1140.0	160.1	8.44
1110.0	190.1	8.25
1080.0	220.1	8.20
1050.0	250.1	8.11
1020.0	280.1	7.93
990.0	310.1	7.94
960.0	340.1	7.95
930.0	370.1	7.95
900.0	400.1	8.01
870.0	430.1	7.98
840.0	460.1	7.88
810.0	490.1	7.82
780.0	520.1	7.75
740.0	560.1	7.64
710.0	590.1	7.67
670.0	630.1	7.64
640.0	660.1	7.52
600.0	700.1	7.58
570.0	730.1	7.55
530.0	770.1	7.47
500.0	800.1	7.39
460.0	840.1	7.39
430.0	870.1	7.49
390.0	910.1	7.49
360.0	940.1	7.48
320.0	980.1	7.31
290.0	1010.1	7.34
250.0	1050.1	7.31
220.0	1080.1	7.30
180.0	1120.1	7.34
150.0	1150.1	7.36
110.0	1190.1	7.46
80.0	1220.1	7.53
40.0	1260.1	7.56
10.0	1290.1	7.52

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=300.1MHz (dB)
		@LO (dBm)
		+17
10.0	310.1	6.88
90.0	390.1	6.89
170.0	470.1	7.10
250.0	550.1	7.15
330.0	630.1	7.45
410.0	710.1	7.47
490.0	790.1	7.41
570.0	870.1	7.51
650.0	950.1	7.64
730.0	1030.1	7.51
810.0	1110.1	7.66
890.0	1190.1	7.85
970.0	1270.1	8.16
1050.0	1350.1	7.98
1130.0	1430.1	7.97
1210.0	1510.1	7.86
1290.0	1590.1	7.86
1370.0	1670.1	7.89
1450.0	1750.1	7.83
1530.0	1830.1	7.90
1610.0	1910.1	7.91
1690.0	1990.1	7.92
1770.0	2070.1	8.08
1830.0	2130.1	8.20
1910.0	2210.1	8.15
1970.0	2270.1	8.24
2050.0	2350.1	8.37
2110.0	2410.1	8.28
2190.0	2490.1	8.30
2250.0	2550.1	8.42
2330.0	2630.1	8.44
2390.0	2690.1	8.52
2470.0	2770.1	8.78
2530.0	2830.1	8.90
2610.0	2910.1	9.11
2670.0	2970.1	9.41
2750.0	3050.1	9.78
2810.0	3110.1	9.93
2890.0	3190.1	10.36
2950.0	3250.1	10.80

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2600.1001MHz (dB)
		@LO (dBm)
		+17
2590.0	10.1	18.60
2530.0	70.1	9.71
2470.0	130.1	9.48
2410.0	190.1	9.33
2350.0	250.1	9.30
2290.0	310.1	9.25
2230.0	370.1	9.33
2170.0	430.1	9.36
2110.0	490.1	9.40
2050.0	550.1	9.48
1990.0	610.1	9.42
1930.0	670.1	9.40
1870.0	730.1	9.46
1810.0	790.1	9.52
1750.0	850.1	9.52
1690.0	910.1	9.53
1610.0	990.1	9.64
1550.0	1050.1	9.71
1470.0	1130.1	9.70
1410.0	1190.1	9.76
1330.0	1270.1	10.15
1270.0	1330.1	9.82
1190.0	1410.1	9.65
1130.0	1470.1	9.69
1050.0	1550.1	9.61
990.0	1610.1	9.56
910.0	1690.1	9.64
850.0	1750.1	9.56
770.0	1830.1	9.48
710.0	1890.1	9.48
630.0	1970.1	9.45
570.0	2030.1	9.43
490.0	2110.1	9.36
430.0	2170.1	9.36
350.0	2250.1	9.23
290.0	2310.1	9.07
210.0	2390.1	8.99
150.0	2450.1	8.94
70.0	2530.1	8.96
10.0	2590.1	8.87

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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
60.1	56.43	56.29	56.08	56.18	54.81	53.84
120.1	46.61	46.94	47.13	47.50	46.86	46.40
200.1	40.51	40.62	40.77	44.57	44.23	44.04
280.1	41.98	41.92	42.00	45.07	44.93	44.89
360.1	43.07	42.91	42.80	47.02	46.96	47.01
440.1	45.99	45.63	45.42	48.72	48.71	48.77
520.1	50.33	49.73	49.22	49.86	49.82	49.81
600.1	51.84	51.14	50.47	51.27	51.20	51.20
680.1	49.03	48.80	48.43	52.11	51.78	51.77
760.1	45.70	45.45	45.28	54.64	54.30	54.01
840.1	44.06	43.82	43.66	56.50	55.95	55.52
920.1	43.09	42.96	42.85	57.25	56.59	56.30
1000.1	41.76	41.72	41.47	56.60	55.91	55.59
1100.1	39.80	39.66	39.60	55.69	55.05	54.42
1180.1	37.62	37.46	37.39	55.00	54.37	53.81
1280.1	34.99	34.92	34.88	53.29	52.85	52.42
1360.1	35.65	35.64	35.62	50.45	49.99	49.48
1460.1	35.88	35.89	35.87	50.40	49.94	49.52
1540.1	35.59	35.57	35.54	51.42	50.88	50.43
1640.1	34.82	34.79	34.73	54.79	54.03	53.20
1720.1	35.02	34.97	34.94	56.45	55.09	53.88
1820.1	35.51	35.57	35.59	52.72	51.60	50.67
1900.1	35.88	36.00	35.98	52.95	51.83	50.99
2000.1	36.52	36.70	36.84	50.20	49.27	48.31
2080.1	37.18	37.29	37.47	49.55	48.61	47.71
2180.1	37.84	37.77	38.00	51.72	50.53	49.89
2260.1	38.15	38.22	38.24	51.20	50.24	49.36
2360.1	38.80	38.80	38.62	48.03	47.26	46.49
2440.1	39.19	38.95	38.97	47.57	46.98	46.78
2540.1	39.31	39.14	39.01	47.54	47.32	47.16
2620.1	39.12	38.88	38.76	46.87	46.61	46.50
2720.1	38.67	38.53	38.17	46.34	46.35	46.22
2800.1	38.59	38.39	38.01	46.12	46.26	46.26
2900.1	38.44	38.24	37.90	46.20	46.35	46.43
2980.1	38.55	38.20	38.17	46.41	46.32	46.47
3080.1	39.03	38.95	38.63	46.45	46.58	46.43
3160.1	39.56	39.57	39.28	46.60	46.60	46.42
3260.1	41.11	41.08	40.86	47.22	47.17	46.97
3340.1	43.52	43.46	43.22	47.98	47.86	47.54
3440.1	51.64	51.61	51.40	49.48	49.22	48.69

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
30.1	60.1	29.65	29.91	29.9
90.1	120.1	29.51	28.76	28.23
170.1	200.1	31.31	31.12	30.85
250.1	280.1	42.62	42.39	42.38
330.1	360.1	47.69	47.46	48.85
410.1	440.1	42.61	42.47	42.52
490.1	520.1	40.55	40.26	39.93
570.1	600.1	39.73	39.46	39.14
650.1	680.1	38.75	38.33	37.92
730.1	760.1	38.30	37.80	37.37
810.1	840.1	37.19	36.59	36.05
890.1	920.1	36.35	35.80	35.32
970.1	1000.1	35.81	35.29	34.97
1070.1	1100.1	35.27	34.88	34.72
1150.1	1180.1	34.40	33.97	33.73
1250.1	1280.1	34.64	34.45	34.63
1330.1	1360.1	34.15	33.91	34.06
1430.1	1460.1	34.20	33.86	33.89
1510.1	1540.1	35.05	34.66	34.70
1610.1	1640.1	36.13	35.78	35.63
1690.1	1720.1	36.73	36.46	36.35
1790.1	1820.1	36.50	36.37	36.31
1870.1	1900.1	35.91	35.81	35.80
1970.1	2000.1	34.99	34.84	34.81
2050.1	2080.1	34.43	34.37	34.31
2150.1	2180.1	33.88	33.74	33.70
2230.1	2260.1	33.28	33.21	33.11
2330.1	2360.1	33.16	33.05	32.95
2410.1	2440.1	33.25	33.13	33.13
2510.1	2540.1	33.53	33.51	33.48
2590.1	2620.1	33.56	33.56	33.54
2690.1	2720.1	33.46	33.44	33.46
2770.1	2800.1	33.39	33.36	33.35
2870.1	2900.1	33.32	33.29	33.26
2950.1	2980.1	33.27	33.22	33.19
3050.1	3080.1	33.49	33.34	33.30
3130.1	3160.1	33.73	33.53	33.45
3230.1	3260.1	34.66	34.41	34.31
3310.1	3340.1	35.49	35.21	35.09
3410.1	3440.1	36.16	36.09	36.33

Frequency Mixer

LAVI-ED12678/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=2600.1001MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
30.1	60.1	1.12	1.1	1.12	60.1	6.19	6.17	6.17	10.1	1.17	1.21	1.26
90.1	120.1	1.31	1.34	1.37	120.1	3.73	3.73	3.73	70.1	1.19	1.23	1.28
170.1	200.1	1.51	1.54	1.57	200.1	3.20	3.20	3.20	130.1	1.29	1.33	1.37
250.1	280.1	1.52	1.55	1.59	280.1	3.16	3.17	3.17	190.1	1.41	1.43	1.46
330.1	360.1	1.61	1.64	1.67	360.1	3.20	3.19	3.19	250.1	1.51	1.53	1.55
410.1	440.1	1.68	1.70	1.72	440.1	3.26	3.26	3.26	310.1	1.68	1.70	1.71
490.1	520.1	1.70	1.70	1.71	520.1	3.30	3.30	3.29	370.1	1.80	1.81	1.82
570.1	600.1	1.68	1.67	1.67	600.1	3.31	3.31	3.31	430.1	1.90	1.92	1.92
650.1	680.1	1.67	1.65	1.63	680.1	3.30	3.31	3.30	490.1	2.06	2.07	2.08
730.1	760.1	1.65	1.61	1.57	760.1	3.27	3.27	3.27	550.1	2.17	2.17	2.17
810.1	840.1	1.66	1.60	1.55	840.1	3.19	3.20	3.20	610.1	2.21	2.21	2.20
890.1	920.1	1.71	1.65	1.59	920.1	3.14	3.14	3.15	670.1	2.31	2.31	2.30
970.1	1000.1	1.78	1.71	1.65	1000.1	3.07	3.07	3.07	730.1	2.31	2.30	2.28
1070.1	1100.1	1.83	1.77	1.71	1100.1	2.93	2.93	2.93	790.1	2.31	2.29	2.26
1150.1	1180.1	1.83	1.76	1.70	1180.1	2.84	2.84	2.84	850.1	2.34	2.32	2.28
1250.1	1280.1	1.67	1.60	1.53	1280.1	2.71	2.71	2.71	910.1	2.32	2.28	2.23
1330.1	1360.1	1.65	1.60	1.54	1360.1	2.67	2.68	2.67	990.1	2.26	2.20	2.14
1430.1	1460.1	1.62	1.58	1.53	1460.1	2.68	2.68	2.68	1050.1	2.23	2.16	2.10
1510.1	1540.1	1.53	1.49	1.45	1540.1	2.72	2.72	2.72	1130.1	2.15	2.07	2.00
1610.1	1640.1	1.37	1.34	1.32	1640.1	2.80	2.80	2.80	1190.1	2.10	2.01	1.93
1690.1	1720.1	1.27	1.26	1.25	1720.1	2.89	2.89	2.90	1270.1	2.04	1.94	1.85
1790.1	1820.1	1.25	1.27	1.30	1820.1	3.02	3.01	3.01	1330.1	1.94	1.84	1.75
1870.1	1900.1	1.30	1.35	1.39	1900.1	3.08	3.08	3.07	1410.1	1.92	1.82	1.73
1970.1	2000.1	1.41	1.47	1.53	2000.1	3.09	3.08	3.06	1470.1	1.90	1.81	1.72
2050.1	2080.1	1.52	1.59	1.66	2080.1	3.00	2.99	2.97	1550.1	1.85	1.76	1.68
2150.1	2180.1	1.62	1.70	1.78	2180.1	2.86	2.85	2.82	1610.1	1.85	1.77	1.70
2230.1	2260.1	1.70	1.78	1.86	2260.1	2.70	2.69	2.68	1690.1	1.80	1.74	1.67
2330.1	2360.1	1.81	1.88	1.96	2360.1	2.54	2.53	2.51	1750.1	1.80	1.74	1.69
2410.1	2440.1	1.84	1.91	1.98	2440.1	2.46	2.46	2.44	1830.1	1.75	1.71	1.67
2510.1	2540.1	1.88	1.94	2.01	2540.1	2.42	2.41	2.40	1890.1	1.69	1.65	1.62
2590.1	2620.1	1.88	1.93	1.98	2620.1	2.46	2.45	2.44	1970.1	1.66	1.64	1.62
2690.1	2720.1	1.90	1.94	1.98	2720.1	2.54	2.53	2.53	2030.1	1.60	1.58	1.57
2770.1	2800.1	1.88	1.91	1.94	2800.1	2.65	2.64	2.63	2110.1	1.52	1.51	1.51
2870.1	2900.1	1.85	1.86	1.88	2900.1	2.83	2.82	2.81	2170.1	1.48	1.48	1.49
2950.1	2980.1	1.81	1.82	1.82	2980.1	2.93	2.92	2.91	2250.1	1.39	1.41	1.43
3050.1	3080.1	1.79	1.81	1.81	3080.1	3.10	3.09	3.08	2310.1	1.37	1.39	1.43
3130.1	3160.1	1.81	1.82	1.82	3160.1	3.21	3.21	3.20	2390.1	1.42	1.46	1.52
3230.1	3260.1	1.80	1.82	1.82	3260.1	3.31	3.31	3.31	2450.1	1.47	1.52	1.58
3310.1	3340.1	1.80	1.83	1.84	3340.1	3.38	3.38	3.37	2530.1	1.54	1.59	1.66
3410.1	3440.1	1.71	1.74	1.76	3440.1	3.31	3.31	3.31	2590.1	1.60	1.66	1.73

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	28	21	38	29	44	53	42	50	52	71
1	-	26	+0	34	14	38	36	42	41	46	42	48
2	64	54	70	57	63	54	66	54	68	63	75	73
3	>90	>83	71	>83	64	>83	66	>83	77	>83	79	>83
4	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
5	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
6	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
7	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
8	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
9	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
10	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1450 MHz; 0.00 dBm.
LO IN: 1480 MHz; +17.00 dBm
IF OUT: 30 MHz; -7.45 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	37	29	48	38	54	46	54	54	59	86
1	-	26	+0	35	15	38	41	43	41	49	42	54
2	44	44	59	47	54	45	59	47	61	57	69	64
3	>90	66	50	66	43	66	44	63	56	64	58	65
4	>90	87	89	83	86	82	76	67	78	63	79	73
5	>90	>92	84	89	81	84	74	81	74	81	87	85
6	>90	>92	>92	>92	>92	>92	>92	91	91	87	>92	86
7	>90	>92	>92	>92	>92	>92	>92	>92	89	>92	89	>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: 1450 MHz; 10.00 dBm.
LO IN: 1480 MHz; +17.00 dBm
IF OUT: 30 MHz; 2.48 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.