

Frequency Mixer

MWJ-ED14276/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=224MHz (dB)		
		@LO (dBm)		
		+15	+17	+19
10.1	234.1	7.89	7.67	7.63
25.1	249.1	8.23	8.06	7.97
40.1	264.1	8.10	7.94	7.81
55.1	279.1	8.13	7.98	7.89
70.1	294.1	8.29	8.16	8.06
85.1	309.1	8.25	8.13	8.04
100.1	324.1	8.24	8.16	8.06
115.1	339.1	8.08	7.98	7.89
135.1	359.1	7.96	7.86	7.77
141.1	365.1	7.95	7.85	7.78
144.1	368.1	7.97	7.86	7.79
147.1	371.1	7.97	7.88	7.80
150.1	374.1	7.98	7.90	7.82
153.1	377.1	8.00	7.90	7.84
156.1	380.1	8.07	7.99	7.92
159.1	383.1	8.09	8.00	7.94
162.1	386.1	8.09	8.00	7.94
165.1	389.1	8.09	8.01	7.95
168.1	392.1	8.11	8.03	7.94
171.1	395.1	8.11	8.05	7.98
175.1	399.1	8.17	8.08	8.02
190.1	414.1	8.26	8.18	8.11
205.1	429.1	8.22	8.13	8.05
220.1	444.1	8.22	8.11	8.02
235.1	459.1	8.04	7.94	7.85
250.1	474.1	8.13	8.02	7.93
265.1	489.1	8.32	8.19	8.09
280.1	504.1	8.41	8.28	8.18
295.1	519.1	8.66	8.53	8.43
310.1	534.1	8.89	8.76	8.66
325.1	549.1	9.16	9.04	8.94
340.1	564.1	9.44	9.31	9.21
355.1	579.1	9.65	9.50	9.39
370.1	594.1	9.82	9.65	9.54
385.1	609.1	9.98	9.81	9.68
400.1	624.1	9.98	9.80	9.65
415.1	639.1	9.90	9.72	9.57
430.1	654.1	9.72	9.52	9.36
445.1	669.1	9.56	9.36	9.20
465.1	689.1	9.55	9.32	9.14

RF (IN) (MHz)	LO (MHz)	IP-3 INPUT (dBm)		
		@LO (dBm)		
		+15	+17	+19
10.1	234.1	22.47	24.77	27.03
25.1	249.1	23.01	25.35	27.55
40.1	264.1	25.10	27.34	29.06
55.1	279.1	25.75	27.79	29.36
70.1	294.1	26.89	28.56	29.73
85.1	309.1	28.61	30.05	31.50
100.1	324.1	29.08	30.32	31.87
115.1	339.1	29.80	31.01	32.34
135.1	359.1	30.28	31.86	33.48
141.1	365.1	30.27	31.51	32.65
144.1	368.1	30.23	31.59	33.02
147.1	371.1	30.17	31.52	32.88
150.1	374.1	30.22	31.47	32.97
153.1	377.1	30.09	31.42	32.90
156.1	380.1	30.58	31.66	33.30
159.1	383.1	30.66	32.08	33.54
162.1	386.1	31.07	32.36	33.63
165.1	389.1	30.95	32.49	34.08
168.1	392.1	31.31	32.66	34.30
171.1	395.1	31.57	32.93	34.23
175.1	399.1	31.73	32.97	34.34
190.1	414.1	31.66	33.10	34.37
205.1	429.1	31.47	33.23	34.65
220.1	444.1	30.99	32.75	34.19
235.1	459.1	30.56	32.21	33.80
250.1	474.1	29.33	30.97	32.81
265.1	489.1	27.95	29.73	31.34
280.1	504.1	28.47	30.14	31.80
295.1	519.1	28.37	29.96	31.33
310.1	534.1	28.84	31.20	32.88
325.1	549.1	27.64	30.94	33.64
340.1	564.1	24.91	27.33	29.61
355.1	579.1	23.06	25.03	26.86
370.1	594.1	22.16	24.03	25.60
385.1	609.1	21.95	23.69	25.42
400.1	624.1	21.98	23.81	25.84
415.1	639.1	21.81	23.69	25.78
430.1	654.1	21.74	23.59	25.72
445.1	669.1	22.11	24.11	26.08
465.1	689.1	21.79	23.87	26.11

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN= +20dBm (dB)		
		@LO (dBm)		
		+15	+17	+19
10.1	234.1	-3.75	-2.70	-1.77
25.1	249.1	-2.97	-2.03	-1.21
40.1	264.1	-2.18	-1.38	-0.76
55.1	279.1	-1.70	-1.01	-0.56
70.1	294.1	-1.42	-0.83	-0.49
85.1	309.1	-1.11	-0.65	-0.39
100.1	324.1	-0.84	-0.51	-0.31
115.1	339.1	-0.55	-0.34	-0.21
135.1	359.1	-0.40	-0.24	-0.16
141.1	365.1	-0.37	-0.22	-0.14
144.1	368.1	-0.37	-0.22	-0.14
147.1	371.1	-0.37	-0.23	-0.15
150.1	374.1	-0.36	-0.22	-0.14
153.1	377.1	-0.36	-0.22	-0.14
156.1	380.1	-0.35	-0.22	-0.14
159.1	383.1	-0.36	-0.21	-0.13
162.1	386.1	-0.34	-0.20	-0.13
165.1	389.1	-0.34	-0.20	-0.12
168.1	392.1	-0.33	-0.20	-0.12
171.1	395.1	-0.33	-0.20	-0.12
175.1	399.1	-0.32	-0.19	-0.12
190.1	414.1	-0.34	-0.20	-0.12
205.1	429.1	-0.40	-0.25	-0.15
220.1	444.1	-0.48	-0.30	-0.19
235.1	459.1	-0.54	-0.34	-0.21
250.1	474.1	-0.59	-0.36	-0.23
265.1	489.1	-0.69	-0.43	-0.27
280.1	504.1	-0.92	-0.57	-0.37
295.1	519.1	-1.19	-0.75	-0.49
310.1	534.1	-1.38	-0.87	-0.57
325.1	549.1	-1.42	-0.90	-0.60
340.1	564.1	-1.46	-0.94	-0.63
355.1	579.1	-1.66	-1.10	-0.74
370.1	594.1	-2.07	-1.40	-0.94
385.1	609.1	-2.54	-1.74	-1.18
400.1	624.1	-2.85	-1.99	-1.32
415.1	639.1	-2.90	-2.01	-1.33
430.1	654.1	-2.83	-1.94	-1.27
445.1	669.1	-2.86	-1.95	-1.26
465.1	689.1	-3.43	-2.42	-1.59



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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=155.1MHz (dB)
		@LO (dBm)
		+17
75.0	80.1	9.84
72.0	83.1	9.61
69.0	86.1	9.52
65.0	90.1	9.41
62.0	93.1	9.44
59.0	96.1	9.44
55.0	100.1	9.45
52.0	103.1	9.45
49.0	106.1	9.44
45.0	110.1	9.36
42.0	113.1	9.30
39.0	116.1	9.23
35.0	120.1	9.10
32.0	123.1	8.99
29.0	126.1	8.87
25.0	130.1	8.80
22.0	133.1	8.76
19.0	136.1	8.71
15.0	140.1	8.80
12.0	143.1	9.07
10.0	165.1	9.40
25.0	180.1	8.52
40.0	195.1	8.46
60.0	215.1	8.18
75.0	230.1	8.17
95.0	250.1	8.20
110.0	265.1	8.08
130.0	285.1	7.99
145.0	300.1	7.92
160.0	315.1	7.99
180.0	335.1	8.03
195.0	350.1	7.95
215.0	370.1	7.96
230.0	385.1	7.89
243.2	398.3	7.93
251.4	406.5	7.95
259.5	414.6	7.96
270.5	425.6	7.95
278.6	433.7	7.93
289.5	444.6	7.97

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=135.1MHz (dB)
		@LO (dBm)
		+17
10.0	145.1	9.50
15.0	150.1	8.95
20.0	155.1	8.91
25.0	160.1	8.75
35.0	170.1	8.58
40.0	175.1	8.47
45.0	180.1	8.44
55.0	190.1	8.41
60.0	195.1	8.48
65.0	200.1	8.47
75.0	210.1	8.24
80.0	215.1	8.24
85.0	220.1	8.19
95.0	230.1	8.22
100.0	235.1	8.25
105.0	240.1	8.25
110.0	245.1	8.24
120.0	255.1	8.06
125.0	260.1	7.97
130.0	265.1	7.93
140.0	275.1	8.05
145.0	280.1	8.08
150.0	285.1	8.09
160.0	295.1	8.06
165.0	300.1	8.05
170.0	305.1	8.01
180.0	315.1	7.95
185.0	320.1	7.94
190.0	325.1	7.91
195.0	330.1	7.90
205.0	340.1	7.86
210.0	345.1	7.84
215.0	350.1	7.83
225.0	360.1	7.86
230.0	365.1	7.88
235.0	370.1	7.88
245.0	380.1	7.88
250.0	385.1	7.90
255.0	390.1	7.93
265.0	400.1	7.90

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=175.1MHz (dB)
		@LO (dBm)
		+17
90.0	85.1	9.69
89.0	86.1	9.67
88.0	87.1	9.60
87.0	88.1	9.51
86.0	89.1	9.49
84.0	91.1	9.46
83.0	92.1	9.44
82.0	93.1	9.43
81.0	94.1	9.43
79.0	96.1	9.43
78.0	97.1	9.43
77.0	98.1	9.42
76.0	99.1	9.42
74.0	101.1	9.42
72.0	103.1	9.51
70.0	105.1	9.49
68.0	107.1	9.47
66.0	109.1	9.46
62.0	113.1	9.38
60.0	115.1	9.33
58.0	117.1	9.28
56.0	119.1	9.21
52.0	123.1	9.07
50.0	125.1	9.01
48.0	127.1	8.95
46.0	129.1	8.89
42.0	133.1	8.82
40.0	135.1	8.80
38.0	137.1	8.79
36.0	139.1	8.79
34.0	141.1	8.79
30.0	145.1	8.85
28.0	147.1	8.84
26.0	149.1	8.82
24.0	151.1	8.89
20.0	155.1	8.92
18.0	157.1	8.85
16.0	159.1	8.96
14.0	161.1	9.02
10.0	165.1	9.36



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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)					@LO (dBm)		
	+15	+17	+19	+15	+17	+19			+15	+17	+19
234.1	58.67	58.41	58.26	56.18	56.02	55.78	10.1	234.1	46.67	41.26	42.56
249.1	57.08	56.65	56.35	54.94	54.59	54.31	25.1	249.1	48.54	51.69	49.01
264.1	56.28	56.04	55.83	54.23	53.99	53.81	40.1	264.1	42.94	42.31	42.44
279.1	54.45	54.22	54.06	52.78	52.50	52.33	55.1	279.1	46.96	49.55	49.77
294.1	52.28	52.01	51.78	51.06	50.66	50.41	70.1	294.1	48.51	49.54	48.70
309.1	51.72	51.51	51.41	50.34	50.12	49.94	85.1	309.1	47.70	46.70	46.32
324.1	51.10	50.96	50.84	49.66	49.45	49.24	100.1	324.1	49.17	50.74	49.98
339.1	49.81	49.69	49.58	48.42	48.20	48.02	115.1	339.1	49.73	50.80	50.31
359.1	49.08	48.98	48.93	47.35	47.14	46.97	135.1	359.1	49.69	50.30	49.89
365.1	48.60	48.48	48.44	47.06	46.80	46.64	141.1	365.1	49.70	49.94	50.49
368.1	48.33	48.25	48.23	46.98	46.76	46.54	144.1	368.1	50.23	50.08	50.19
371.1	48.05	47.95	47.93	46.95	46.69	46.53	147.1	371.1	49.75	50.54	49.85
374.1	47.74	47.70	47.66	46.88	46.66	46.50	150.1	374.1	50.05	50.14	50.52
377.1	47.57	47.51	47.48	46.82	46.63	46.44	153.1	377.1	50.22	49.92	51.48
380.1	47.47	47.44	47.38	46.71	46.52	46.33	156.1	380.1	50.02	49.86	50.78
383.1	47.44	47.40	47.41	46.61	46.42	46.25	159.1	383.1	49.57	49.75	50.48
386.1	47.43	47.37	47.39	46.58	46.39	46.22	162.1	386.1	49.29	49.63	50.21
389.1	47.42	47.38	47.39	46.58	46.42	46.26	165.1	389.1	49.38	49.48	50.06
392.1	47.50	47.49	47.49	46.66	46.51	46.31	168.1	392.1	49.06	49.06	49.93
395.1	47.61	47.59	47.59	46.76	46.58	46.47	171.1	395.1	49.07	48.81	49.58
399.1	47.71	47.68	47.69	46.94	46.73	46.63	175.1	399.1	48.38	48.84	48.98
414.1	47.89	47.86	47.84	47.09	46.94	46.81	190.1	414.1	47.36	47.59	47.59
429.1	47.82	47.78	47.78	47.27	47.15	47.03	205.1	429.1	46.38	46.13	46.31
444.1	48.70	48.63	48.64	47.81	47.68	47.61	220.1	444.1	46.62	46.42	46.39
459.1	48.95	48.86	48.82	48.34	48.23	48.12	235.1	459.1	46.92	46.27	46.78
474.1	49.08	48.96	48.91	48.86	48.70	48.57	250.1	474.1	46.61	46.27	45.75
489.1	50.08	50.01	49.93	49.24	49.03	48.85	265.1	489.1	47.71	47.40	47.06
504.1	50.77	50.61	50.52	48.97	48.71	48.57	280.1	504.1	47.77	47.96	47.68
519.1	51.20	51.02	50.88	49.03	48.72	48.44	295.1	519.1	47.60	47.11	46.73
534.1	51.61	51.33	51.18	49.64	49.19	48.88	310.1	534.1	49.03	48.99	48.96
549.1	52.00	51.60	51.26	51.14	50.76	50.45	325.1	549.1	49.18	49.34	49.62
564.1	50.90	50.37	49.93	51.60	51.22	50.93	340.1	564.1	48.30	48.51	48.58
579.1	49.08	48.58	48.18	51.46	51.22	50.99	355.1	579.1	46.04	45.73	45.50
594.1	47.65	47.22	46.81	50.65	50.46	50.37	370.1	594.1	43.90	43.35	42.89
609.1	46.55	46.09	45.70	49.90	49.75	49.67	385.1	609.1	42.06	41.66	41.12
624.1	47.05	46.61	46.29	50.12	50.05	50.04	400.1	624.1	39.79	39.08	38.31
639.1	47.86	47.40	47.02	51.28	51.30	51.34	415.1	639.1	38.45	37.73	37.06
654.1	47.98	47.57	47.27	53.11	53.29	53.41	430.1	654.1	38.18	37.67	37.08
669.1	49.30	49.00	48.86	56.02	56.21	56.51	445.1	669.1	38.04	37.49	36.99
689.1	52.08	51.66	51.36	59.94	59.77	59.27	465.1	689.1	38.35	37.85	37.40



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=399.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+15	+17	+19		+15	+17	+19		+15	+17	+19
10.1	234.1	1.27	1.39	1.40	234.1	11.72	11.72	11.70	10.1	1.61	1.67	1.62
25.1	249.1	1.31	1.32	1.35	249.1	10.56	10.53	10.52	15.1	1.61	1.65	1.69
40.1	264.1	1.32	1.40	1.43	264.1	9.31	9.29	9.27	25.1	1.65	1.67	1.73
55.1	279.1	1.37	1.42	1.46	279.1	8.10	8.08	8.06	35.1	1.65	1.69	1.73
70.1	294.1	1.41	1.44	1.48	294.1	6.92	6.90	6.87	45.1	1.63	1.68	1.73
85.1	309.1	1.43	1.46	1.50	309.1	5.72	5.70	5.68	55.1	1.63	1.68	1.72
100.1	324.1	1.45	1.49	1.52	324.1	4.63	4.61	4.59	65.1	1.64	1.68	1.72
115.1	339.1	1.49	1.54	1.57	339.1	3.63	3.61	3.59	75.1	1.63	1.67	1.72
135.1	359.1	1.55	1.58	1.61	359.1	2.52	2.51	2.49	85.1	1.62	1.66	1.70
141.1	365.1	1.56	1.59	1.62	365.1	2.25	2.24	2.22	95.1	1.61	1.65	1.69
144.1	368.1	1.56	1.59	1.62	368.1	2.12	2.11	2.10	105.1	1.66	1.70	1.74
147.1	371.1	1.56	1.60	1.63	371.1	2.00	1.99	1.98	115.1	1.69	1.73	1.77
150.1	374.1	1.58	1.60	1.64	374.1	1.89	1.88	1.87	125.1	1.68	1.72	1.76
153.1	377.1	1.58	1.61	1.64	377.1	1.79	1.78	1.77	135.1	1.66	1.69	1.74
156.1	380.1	1.59	1.62	1.65	380.1	1.69	1.68	1.67	140.1	1.66	1.69	1.73
159.1	383.1	1.59	1.62	1.65	383.1	1.60	1.59	1.59	150.1	1.67	1.71	1.74
162.1	386.1	1.59	1.62	1.65	386.1	1.52	1.52	1.51	160.1	1.68	1.71	1.75
165.1	389.1	1.59	1.62	1.65	389.1	1.45	1.45	1.44	170.1	1.65	1.68	1.72
168.1	392.1	1.60	1.62	1.65	392.1	1.40	1.39	1.39	180.1	1.65	1.69	1.72
171.1	395.1	1.60	1.63	1.65	395.1	1.36	1.35	1.35	190.1	1.68	1.72	1.75
175.1	399.1	1.61	1.63	1.66	399.1	1.33	1.33	1.33	200.1	1.70	1.73	1.76
190.1	414.1	1.61	1.64	1.66	414.1	1.49	1.50	1.51	210.1	1.70	1.73	1.77
205.1	429.1	1.63	1.66	1.68	429.1	1.92	1.94	1.95	220.1	1.69	1.72	1.75
220.1	444.1	1.66	1.69	1.71	444.1	2.48	2.50	2.52	229.1	1.70	1.73	1.76
235.1	459.1	1.67	1.69	1.71	459.1	3.15	3.18	3.20	239.1	1.72	1.76	1.78
250.1	474.1	1.69	1.70	1.72	474.1	3.88	3.91	3.94	249.1	1.75	1.78	1.81
265.1	489.1	1.71	1.72	1.74	489.1	4.66	4.69	4.72	259.1	1.74	1.77	1.80
280.1	504.1	1.73	1.74	1.75	504.1	5.52	5.55	5.58	264.1	1.73	1.76	1.79
295.1	519.1	1.76	1.77	1.78	519.1	6.28	6.31	6.34	274.1	1.73	1.76	1.78
310.1	534.1	1.80	1.81	1.82	534.1	7.07	7.09	7.12	284.1	1.76	1.78	1.81
325.1	549.1	1.85	1.85	1.86	549.1	7.67	7.69	7.70	294.1	1.78	1.80	1.82
340.1	564.1	1.90	1.90	1.91	564.1	8.24	8.24	8.24	304.1	1.77	1.79	1.81
355.1	579.1	1.90	1.90	1.90	579.1	8.67	8.66	8.66	314.1	1.76	1.78	1.80
370.1	594.1	1.92	1.91	1.91	594.1	9.19	9.18	9.18	324.1	1.78	1.80	1.82
385.1	609.1	1.93	1.92	1.91	609.1	9.69	9.69	9.68	334.1	1.81	1.83	1.85
400.1	624.1	1.92	1.90	1.89	624.1	10.26	10.26	10.26	344.1	1.82	1.84	1.86
415.1	639.1	1.96	1.94	1.92	639.1	10.93	10.93	10.92	354.1	1.81	1.82	1.84
430.1	654.1	1.99	1.96	1.94	654.1	11.44	11.43	11.39	364.1	1.83	1.84	1.86
445.1	669.1	2.05	2.02	2.00	669.1	12.05	12.02	11.97	374.1	1.87	1.88	1.89
465.1	689.1	2.13	2.09	2.06	689.1	12.68	12.65	12.60	384.1	1.89	1.90	1.91



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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	20.38	20.42	21.11	30.08	34.01	43.63	41.61	53.13	53.59	54.90
1	---	42.29	---	47.55	12.01	45.15	18.33	53.05	26.80	47.81	42.52	46.72
2	113.89	73.10	57.46	61.74	64.53	60.65	66.36	62.08	57.77	60.06	57.86	63.49
3	111.93	111.16	77.44	98.46	75.50	91.63	74.11	90.83	77.17	95.28	81.47	100.88
4	111.21	113.61	119.11	112.13	117.22	111.68	117.49	109.31	120.87	117.20	112.88	111.65
5	114.13	120.00	104.91	118.37	107.18	120.63	104.04	121.48	107.12	118.43	111.93	119.01
6	113.52	119.12	119.50	118.55	117.55	120.09	120.59	121.31	119.44	120.90	118.08	120.04
7	114.15	120.84	121.24	118.53	119.43	118.61	116.28	121.44	119.48	119.87	121.16	117.23
8	112.00	118.66	122.39	117.31	121.71	116.26	121.97	120.64	121.41	121.03	119.81	117.01
9	114.94	122.10	121.95	121.30	117.93	121.67	119.33	119.73	120.09	119.71	120.12	119.97
10	114.02	119.78	119.97	120.14	117.58	120.33	114.46	120.16	119.67	120.34	120.57	118.85
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 155 MHz; 0 dBm.
 LO IN: 379 MHz; +17.00 dBm
 IF OUT: 224 MHz; -7.93 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	28.74	31.36	34.02	45.01	42.21	45.31	43.44	46.93	45.16	48.64
1	---	42.31	---	47.53	12.15	45.09	18.64	51.95	27.37	47.82	44.22	47.28
2	101.85	62.96	47.21	51.71	54.51	50.78	56.73	52.29	47.72	50.37	48.08	54.21
3	113.13	88.50	57.14	77.08	54.88	70.19	53.30	69.26	56.44	73.24	60.36	81.06
4	113.01	94.87	87.33	100.86	87.43	98.28	97.08	88.12	96.15	88.54	81.47	84.37
5	110.57	97.73	84.82	100.02	85.23	105.12	84.69	104.75	86.93	112.60	92.88	104.27
6	112.96	111.28	107.39	110.39	106.80	112.82	106.37	111.99	102.98	111.67	107.83	115.31
7	113.79	116.60	99.89	115.79	102.11	118.92	103.68	118.17	101.70	121.80	109.04	121.04
8	112.52	122.06	119.51	124.04	117.40	125.16	116.88	124.49	118.03	126.46	123.91	129.21
9	111.90	130.08	101.71	126.31	103.37	129.06	103.40	123.14	103.70	119.50	106.60	123.72
10	113.09	126.35	125.95	131.89	124.95	130.35	122.82	129.77	125.33	127.82	123.83	128.35
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 155 MHz; 10 dBm.
 LO IN: 379 MHz; +17.00 dBm
 IF OUT: 224 MHz; 2.21 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.

