

Frequency Mixer

HJK-ED14405/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP-3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+17dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+13	+15	+17			+13	+15	+17			+13	+15	+17
55.1	25.1	9.32	9.07	8.91	55.1	25.1	12.30	13.41	14.52	55.1	25.1	-0.34	-0.32	-0.29
65.1	35.1	8.73	8.52	8.35	65.1	35.1	14.91	16.14	17.39	65.1	35.1	-0.19	-0.19	-0.17
75.1	45.1	8.42	8.22	8.06	75.1	45.1	16.19	17.35	18.74	75.1	45.1	-0.10	-0.11	-0.11
85.1	55.1	8.22	8.03	7.86	85.1	55.1	17.12	18.29	20.35	85.1	55.1	-0.02	-0.05	-0.03
100.1	70.1	7.94	7.74	7.57	100.1	70.1	33.30	26.01	25.80	100.1	70.1	0.06	0.03	0.04
110.1	80.1	7.74	7.54	7.37	110.1	80.1	26.29	26.49	26.47	110.1	80.1	0.08	0.05	0.04
120.1	90.1	7.64	7.42	7.26	120.1	90.1	23.70	25.52	26.92	120.1	90.1	0.09	0.06	0.04
130.1	100.1	7.67	7.45	7.30	130.1	100.1	22.61	24.13	24.79	130.1	100.1	0.08	0.06	0.04
145.1	115.1	7.58	7.41	7.27	145.1	115.1	22.15	22.50	23.16	145.1	115.1	0.06	0.02	0.01
155.1	125.1	7.45	7.29	7.14	155.1	125.1	21.22	22.06	23.57	155.1	125.1	0.04	0.02	0.02
165.1	135.1	7.31	7.15	7.00	165.1	135.1	21.38	22.95	25.03	165.1	135.1	0.04	0.01	0.01
180.1	150.1	7.14	6.98	6.85	180.1	150.1	24.12	26.62	29.99	180.1	150.1	0.05	0.03	0.01
190.1	160.1	7.14	7.00	6.87	190.1	160.1	24.92	28.07	31.70	190.1	160.1	0.05	0.03	0.01
200.1	170.1	7.10	6.96	6.84	200.1	170.1	24.73	28.29	32.41	200.1	170.1	0.03	0.01	0.00
210.1	180.1	6.95	6.81	6.69	210.1	180.1	24.87	29.14	35.10	210.1	180.1	0.02	0.00	-0.01
225.1	195.1	6.71	6.57	6.46	225.1	195.1	26.61	31.76	36.25	225.1	195.1	0.01	0.00	-0.01
235.1	205.1	6.68	6.56	6.46	235.1	205.1	27.98	31.96	35.02	235.1	205.1	0.00	-0.01	-0.01
245.1	215.1	6.67	6.57	6.48	245.1	215.1	28.57	31.66	35.16	245.1	215.1	0.00	-0.01	-0.01
260.1	230.1	6.53	6.43	6.35	260.1	230.1	29.38	32.22	35.51	260.1	230.1	-0.01	-0.01	-0.01
270.1	240.1	6.40	6.31	6.23	270.1	240.1	30.81	33.09	35.66	270.1	240.1	-0.01	-0.01	-0.01
280.1	250.1	6.33	6.24	6.17	280.1	250.1	33.46	37.70	37.86	280.1	250.1	-0.01	-0.01	-0.01
290.1	260.1	6.36	6.28	6.20	290.1	260.1	34.88	35.62	39.10	290.1	260.1	-0.01	-0.01	-0.01
305.1	275.1	6.42	6.33	6.26	305.1	275.1	32.63	35.05	36.78	305.1	275.1	-0.01	0.00	0.00
315.1	285.1	6.43	6.33	6.25	315.1	285.1	32.12	35.72	39.33	315.1	285.1	-0.01	-0.01	-0.01
325.1	295.1	6.45	6.34	6.25	325.1	295.1	31.70	33.99	36.88	325.1	295.1	-0.01	-0.01	-0.01
340.1	310.1	6.50	6.37	6.26	340.1	310.1	31.82	33.16	33.68	340.1	310.1	-0.02	-0.01	-0.01
350.1	320.1	6.60	6.45	6.33	350.1	320.1	33.31	39.04	41.15	350.1	320.1	0.00	0.00	-0.01
360.1	330.1	6.69	6.53	6.41	360.1	330.1	30.05	36.80	35.51	360.1	330.1	0.00	-0.01	-0.01
370.1	340.1	6.80	6.63	6.49	370.1	340.1	26.49	34.18	33.26	370.1	340.1	0.00	-0.01	-0.01
385.1	355.1	6.92	6.73	6.56	385.1	355.1	23.72	27.75	36.71	385.1	355.1	0.03	-0.01	-0.02
395.1	365.1	6.95	6.74	6.58	395.1	365.1	22.63	26.19	33.32	395.1	365.1	0.07	0.02	-0.03
405.1	375.1	7.10	6.86	6.67	405.1	375.1	21.90	24.99	30.11	405.1	375.1	0.09	0.03	0.00
420.1	390.1	7.39	7.12	6.90	420.1	390.1	21.17	24.37	28.96	420.1	390.1	0.14	0.05	0.00
430.1	400.1	7.56	7.27	7.02	430.1	400.1	20.70	23.90	28.50	430.1	400.1	0.19	0.07	0.02
440.1	410.1	7.65	7.34	7.08	440.1	410.1	20.35	23.37	28.00	440.1	410.1	0.24	0.11	0.05
450.1	420.1	7.74	7.41	7.13	450.1	420.1	20.10	23.24	26.44	450.1	420.1	0.27	0.14	0.06
465.1	435.1	7.94	7.59	7.29	465.1	435.1	19.67	22.51	25.23	465.1	435.1	0.34	0.17	0.08
475.1	445.1	8.15	7.78	7.47	475.1	445.1	19.27	22.21	25.04	475.1	445.1	0.38	0.20	0.10
485.1	455.1	8.35	7.95	7.62	485.1	455.1	18.77	21.61	24.32	485.1	455.1	0.44	0.25	0.12
500.1	470.1	8.58	8.13	7.77	500.1	470.1	17.45	20.25	23.01	500.1	470.1	0.52	0.31	0.15

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=245MHz (dB)
		@LO (dBm)
		+15
224.9	20.1	9.50
214.9	30.1	8.84
204.9	40.1	8.40
194.9	50.1	8.13
184.9	60.1	7.92
169.9	75.1	7.60
159.9	85.1	7.42
149.9	95.1	7.33
139.9	105.1	7.29
129.9	115.1	7.31
114.9	130.1	7.27
104.9	140.1	7.25
94.9	150.1	7.08
84.9	160.1	6.98
74.9	170.1	6.88
59.9	185.1	6.60
49.9	195.1	6.66
39.9	205.1	6.58
29.9	215.1	6.57
19.9	225.1	6.59
10.1	255.1	6.47
16.1	261.1	6.45
24.1	269.1	6.40
32.1	277.1	6.38
38.1	283.1	6.36
46.1	291.1	6.37
54.1	299.1	6.24
61.1	306.1	6.41
67.1	312.1	6.49
75.1	320.1	6.50
83.1	328.1	6.58
91.1	336.1	6.57
97.1	342.1	6.59
105.1	350.1	6.63
113.1	358.1	6.63
121.1	366.1	6.61
127.1	372.1	6.62
135.1	380.1	6.64
143.1	388.1	6.67
151.1	396.1	6.68

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=230MHz (dB)
		@LO (dBm)
		+15
10.1	240.1	6.48
14.1	244.1	6.48
18.1	248.1	6.45
22.1	252.1	6.39
26.1	256.1	6.36
30.1	260.1	6.33
34.1	264.1	6.30
38.1	268.1	6.28
42.1	272.1	6.28
46.1	276.1	6.27
50.1	280.1	6.22
54.1	284.1	6.10
58.1	288.1	6.11
62.1	292.1	6.30
66.1	296.1	6.35
70.1	300.1	6.35
74.1	304.1	6.36
78.1	308.1	6.41
82.1	312.1	6.48
86.1	316.1	6.49
92.1	322.1	6.52
96.1	326.1	6.53
100.1	330.1	6.55
104.1	334.1	6.56
108.1	338.1	6.57
112.1	342.1	6.55
116.1	346.1	6.56
120.1	350.1	6.55
124.1	354.1	6.54
128.1	358.1	6.51
132.1	362.1	6.49
136.1	366.1	6.48
140.1	370.1	6.48
144.1	374.1	6.53
148.1	378.1	6.54
152.1	382.1	6.55
156.1	386.1	6.57
160.1	390.1	6.58
164.1	394.1	6.62
170.1	400.1	6.72

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=260MHz (dB)
		@LO (dBm)
		+15
239.9	20.1	9.45
234.9	25.1	8.98
229.9	30.1	8.70
224.9	35.1	8.52
219.9	40.1	8.32
214.9	45.1	8.16
204.9	55.1	7.95
199.9	60.1	7.90
194.9	65.1	7.81
189.9	70.1	7.74
184.9	75.1	7.65
179.9	80.1	7.58
169.9	90.1	7.44
164.9	95.1	7.38
159.9	100.1	7.34
154.9	105.1	7.28
149.9	110.1	7.25
139.9	120.1	7.20
134.9	125.1	7.20
129.9	130.1	7.05
124.9	135.1	7.12
119.9	140.1	7.10
114.9	145.1	7.06
104.9	155.1	6.99
99.9	160.1	6.94
94.9	165.1	6.92
89.9	170.1	6.90
84.9	175.1	6.85
74.9	185.1	6.76
69.9	190.1	6.73
64.9	195.1	6.64
59.9	200.1	6.50
54.9	205.1	6.37
49.9	210.1	6.52
39.9	220.1	6.45
34.9	225.1	6.44
29.9	230.1	6.43
24.9	235.1	6.43
19.9	240.1	6.42
9.9	250.1	6.42



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IF/RF MICROWAVE COMPONENTS



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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+13	+15	+17	+13	+15	+17
25.1	79.21	78.73	79.38	65.21	65.52	65.82
35.1	79.42	79.18	78.61	62.67	62.88	63.24
45.1	78.36	77.02	77.32	60.65	61.00	61.25
55.1	76.59	76.95	76.72	59.11	59.39	59.63
70.1	75.20	75.97	76.71	57.31	57.57	57.82
80.1	73.74	74.76	75.41	56.23	56.47	56.66
90.1	71.69	72.90	73.91	55.24	55.43	55.61
100.1	70.55	71.68	73.24	54.05	54.22	54.34
115.1	69.00	70.40	73.14	52.33	52.43	52.45
125.1	70.32	72.78	76.04	50.81	50.86	50.85
135.1	75.31	79.30	74.54	49.30	49.36	49.35
150.1	69.81	68.18	66.22	47.24	47.27	47.25
160.1	67.50	66.40	65.37	46.14	46.15	46.15
170.1	67.09	66.30	65.74	45.25	45.26	45.26
180.1	67.10	66.30	65.75	44.14	44.13	44.12
195.1	66.40	65.42	65.09	42.19	42.17	42.15
205.1	66.51	65.73	65.57	40.66	40.63	40.62
215.1	67.76	66.82	66.82	39.06	39.03	39.02
230.1	70.81	69.14	68.38	36.97	36.95	36.97
240.1	72.76	69.61	68.16	35.73	35.72	35.73
250.1	70.31	68.35	67.05	34.95	34.95	34.95
260.1	65.16	64.55	63.91	34.31	34.31	34.33
275.1	58.85	58.46	58.14	33.92	33.93	33.96
285.1	56.65	56.29	55.99	34.25	34.29	34.33
295.1	55.36	55.10	54.89	34.75	34.81	34.86
310.1	53.15	53.02	52.98	35.93	36.02	36.10
320.1	51.39	51.24	51.22	36.48	36.60	36.70
330.1	50.02	49.83	49.79	37.07	37.20	37.31
340.1	49.22	49.00	48.94	37.63	37.77	37.91
355.1	48.01	47.74	47.63	38.35	38.50	38.63
365.1	47.22	46.90	46.70	39.07	39.22	39.38
375.1	46.89	46.48	46.22	39.75	39.94	40.11
390.1	47.35	46.83	46.50	40.88	41.15	41.42
400.1	47.62	47.09	46.74	41.55	41.90	42.24
410.1	47.90	47.36	47.01	42.13	42.56	42.98
420.1	48.43	47.88	47.53	42.72	43.26	43.77
435.1	49.95	49.47	49.18	43.39	44.07	44.74
445.1	50.78	50.34	50.12	43.92	44.72	45.49
455.1	51.35	50.91	50.74	44.41	45.32	46.22
470.1	52.73	52.30	52.04	45.03	46.08	47.13

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+13	+15	+17
55.1	25.1	24.05	24.55	25.06
65.1	35.1	25.25	25.47	25.68
75.1	45.1	27.04	27.03	27.32
85.1	55.1	27.97	27.80	28.45
100.1	70.1	28.68	28.23	28.01
110.1	80.1	28.23	27.90	27.56
120.1	90.1	26.80	26.57	26.10
130.1	100.1	26.73	26.37	25.77
145.1	115.1	24.47	23.84	23.27
155.1	125.1	22.39	21.82	21.67
165.1	135.1	21.56	21.13	21.42
180.1	150.1	22.92	22.87	23.73
190.1	160.1	24.98	25.12	26.12
200.1	170.1	26.25	26.25	27.06
210.1	180.1	27.28	27.31	27.95
225.1	195.1	29.11	29.29	29.77
235.1	205.1	30.41	30.59	30.95
245.1	215.1	32.10	32.34	32.55
260.1	230.1	34.45	34.52	34.60
270.1	240.1	36.19	36.18	36.14
280.1	250.1	37.98	37.86	37.82
290.1	260.1	39.08	39.03	39.00
305.1	275.1	38.96	39.13	39.23
315.1	285.1	37.92	38.12	38.24
325.1	295.1	36.96	37.08	37.11
340.1	310.1	34.90	34.80	34.68
350.1	320.1	33.85	33.75	33.54
360.1	330.1	33.31	33.12	32.97
370.1	340.1	32.52	32.25	32.05
385.1	355.1	31.90	31.46	31.11
395.1	365.1	31.31	30.87	30.44
405.1	375.1	30.72	30.30	29.84
420.1	390.1	30.40	29.96	29.52
430.1	400.1	30.08	29.68	29.24
440.1	410.1	29.99	29.61	29.21
450.1	420.1	29.72	29.39	29.04
465.1	435.1	29.34	29.02	28.74
475.1	445.1	29.35	29.01	28.75
485.1	455.1	29.41	29.05	28.78
500.1	470.1	29.29	28.92	28.63

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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=260MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+13	+15	+17		+13	+15	+17		+13	+15	+17
55.1	25.1	1.38	1.46	1.54	25.1	3.55	3.56	3.57	0.3	1.99	1.96	1.94
65.1	35.1	1.48	1.57	1.65	35.1	3.49	3.49	3.48	0.5	1.90	1.87	1.84
75.1	45.1	1.54	1.63	1.72	45.1	3.46	3.45	3.44	0.8	1.91	1.88	1.85
85.1	55.1	1.56	1.65	1.75	55.1	3.45	3.44	3.42	2.0	2.00	1.97	1.93
100.1	70.1	1.67	1.78	1.90	70.1	3.43	3.43	3.42	4.0	2.05	2.01	1.97
110.1	80.1	1.74	1.86	1.98	80.1	3.43	3.42	3.42	7.0	2.07	2.02	1.99
120.1	90.1	1.73	1.85	1.96	90.1	3.42	3.42	3.41	10.0	2.08	2.03	1.99
130.1	100.1	1.71	1.82	1.93	100.1	3.41	3.41	3.41	13.0	2.08	2.03	1.99
145.1	115.1	1.74	1.85	1.97	115.1	3.40	3.40	3.39	15.0	2.07	2.03	1.99
155.1	125.1	1.79	1.90	2.02	125.1	3.39	3.38	3.38	18.0	2.06	2.02	1.98
165.1	135.1	1.82	1.92	2.03	135.1	3.38	3.37	3.37	21.0	2.05	2.01	1.97
180.1	150.1	1.83	1.93	2.03	150.1	3.36	3.35	3.34	23.0	2.05	2.01	1.97
190.1	160.1	1.85	1.95	2.04	160.1	3.34	3.33	3.32	26.0	2.04	2.00	1.96
200.1	170.1	1.85	1.94	2.03	170.1	3.31	3.30	3.30	30.0	2.04	2.00	1.96
210.1	180.1	1.82	1.91	1.99	180.1	3.27	3.26	3.26	32.0	2.04	2.00	1.96
225.1	195.1	1.80	1.88	1.96	195.1	3.17	3.16	3.16	34.0	2.04	2.00	1.96
235.1	205.1	1.83	1.91	1.98	205.1	3.07	3.06	3.06	37.0	2.05	2.00	1.96
245.1	215.1	1.85	1.93	2.00	215.1	2.92	2.91	2.91	40.0	2.05	2.01	1.97
260.1	230.1	1.83	1.90	1.97	230.1	2.59	2.58	2.57	42.0	2.05	2.01	1.97
270.1	240.1	1.82	1.88	1.95	240.1	2.29	2.27	2.26	45.0	2.06	2.02	1.98
280.1	250.1	1.83	1.89	1.95	250.1	1.93	1.92	1.90	48.0	2.06	2.02	1.98
290.1	260.1	1.83	1.89	1.95	260.1	1.58	1.57	1.56	51.0	2.07	2.02	1.98
305.1	275.1	1.77	1.82	1.88	275.1	1.24	1.23	1.23	53.0	2.07	2.02	1.98
315.1	285.1	1.72	1.78	1.83	285.1	1.29	1.29	1.30	56.0	2.06	2.02	1.98
325.1	295.1	1.71	1.76	1.82	295.1	1.47	1.48	1.49	59.0	2.05	2.01	1.97
340.1	310.1	1.67	1.72	1.77	310.1	1.75	1.76	1.77	61.0	2.05	2.01	1.97
350.1	320.1	1.63	1.67	1.72	320.1	1.92	1.93	1.94	64.0	2.04	2.00	1.96
360.1	330.1	1.61	1.66	1.70	330.1	2.06	2.08	2.09	67.0	2.04	1.99	1.95
370.1	340.1	1.62	1.66	1.70	340.1	2.19	2.20	2.21	70.0	2.02	1.98	1.94
385.1	355.1	1.64	1.67	1.70	355.1	2.34	2.34	2.35	72.0	2.02	1.97	1.93
395.1	365.1	1.66	1.68	1.70	365.1	2.41	2.42	2.43	75.0	2.00	1.96	1.92
405.1	375.1	1.70	1.71	1.72	375.1	2.48	2.49	2.49	78.0	2.00	1.95	1.91
420.1	390.1	1.81	1.80	1.81	390.1	2.56	2.57	2.57	80.0	1.99	1.95	1.91
430.1	400.1	1.89	1.87	1.87	400.1	2.60	2.61	2.61	83.0	1.98	1.94	1.90
440.1	410.1	1.96	1.93	1.93	410.1	2.64	2.65	2.65	86.0	1.98	1.94	1.90
450.1	420.1	2.03	2.00	1.98	420.1	2.68	2.69	2.69	89.0	1.98	1.94	1.90
465.1	435.1	2.15	2.12	2.09	435.1	2.73	2.74	2.74	91.0	1.98	1.94	1.90
475.1	445.1	2.23	2.19	2.16	445.1	2.76	2.76	2.76	94.0	1.98	1.94	1.90
485.1	455.1	2.30	2.25	2.21	455.1	2.78	2.79	2.79	97.0	1.99	1.95	1.91
500.1	470.1	2.41	2.35	2.30	470.1	2.82	2.82	2.82	100.0	1.99	1.95	1.91



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IF/RF MICROWAVE COMPONENTS

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	2.83	20.59	16.97	9.36	18.93	20.21	19.94	30.79	24.04	42.42
1	---	25.23	---	29.08	10.09	29.97	21.76	36.90	30.64	37.77	38.31	39.74
2	119.22	68.88	71.69	77.62	73.43	75.39	79.92	73.14	81.98	85.33	84.46	87.30
3	132.43	99.88	97.36	96.30	95.26	98.71	88.97	100.98	95.03	99.17	99.19	99.39
4	131.26	101.27	99.22	95.02	99.18	84.91	96.70	87.13	99.30	95.24	100.80	96.56
5	132.74	100.01	101.22	99.81	99.05	98.64	94.03	97.03	96.08	99.64	101.24	102.86
6	132.37	100.78	100.69	99.22	101.40	99.36	97.47	91.59	98.06	79.95	97.87	101.66
7	130.54	100.00	99.17	100.19	99.71	100.30	99.72	97.75	95.40	97.24	93.32	97.26
8	130.99	98.36	98.87	100.09	99.75	100.48	102.01	100.32	100.31	95.08	95.97	92.07
9	130.71	99.33	100.06	99.56	102.02	100.78	98.76	100.13	96.00	101.63	89.10	98.20
10	130.09	100.25	99.05	100.03	99.81	100.44	100.34	101.06	101.32	101.85	99.81	96.24
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 245 MHz; -15 dBm.
LO IN: 215 MHz; +15.00 dBm
IF OUT: 30 MHz; -21.64 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	12.84	30.99	26.99	19.50	29.05	30.32	29.96	40.34	33.89	54.33
1	---	25.23	---	29.09	10.11	29.94	21.86	36.97	30.72	37.76	38.59	39.77
2	108.13	58.74	61.79	66.70	63.59	65.88	71.35	63.16	72.49	75.15	74.60	76.96
3	122.78	90.94	73.88	87.88	80.80	84.73	74.05	83.56	73.56	98.07	77.72	108.49
4	122.04	106.52	110.69	95.86	105.23	85.14	102.33	86.85	100.58	105.93	103.28	110.88
5	120.96	110.68	109.23	110.28	101.32	98.39	94.52	100.46	95.45	105.52	105.41	110.76
6	122.32	111.50	109.89	110.71	111.14	102.82	107.93	92.51	107.96	87.71	104.31	109.94
7	119.70	111.17	109.56	107.98	110.15	108.90	107.47	105.35	101.67	98.66	100.39	101.46
8	121.30	109.44	109.26	111.55	110.14	109.82	109.55	110.03	101.96	98.53	102.75	98.70
9	120.69	110.52	108.84	109.56	109.72	110.64	108.75	111.47	97.94	105.52	89.25	99.45
10	121.43	109.12	110.61	108.86	109.05	110.59	109.34	111.03	111.14	110.75	108.94	102.67
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 245 MHz; -5 dBm.
LO IN: 215 MHz; +15.00 dBm
IF OUT: 30 MHz; -11.59 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.

