

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=20dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+14	+17	+20			+14	+17	+20			+14	+17	+20
10.1	40.1	5.92	5.74	5.80	10.1	40.1	22.29	25.20	21.83	10.1	40.1	4.56	2.65	0.95
30.1	60.1	5.80	5.67	5.65	30.1	60.1	25.25	27.95	24.09	30.1	60.1	1.55	0.87	0.03
50.1	80.1	5.79	5.69	5.64	50.1	80.1	27.74	30.21	28.79	50.1	80.1	1.52	0.76	0.44
70.1	100.1	5.82	5.73	5.66	70.1	100.1	28.04	29.88	30.88	70.1	100.1	1.17	0.61	0.35
105.1	135.1	6.04	5.96	5.89	90.1	120.1	28.38	30.46	32.47	105.1	135.1	0.90	0.46	0.25
111.1	141.1	6.05	5.96	5.89	111.1	141.1	28.49	31.09	33.74	111.1	141.1	0.88	0.44	0.24
123.1	153.1	6.04	5.95	5.88	123.1	153.1	28.64	31.21	33.57	123.1	153.1	0.91	0.46	0.25
135.1	165.1	6.14	6.06	5.98	135.1	165.1	28.42	30.93	32.88	135.1	165.1	0.92	0.48	0.27
147.1	177.1	6.28	6.18	6.12	147.1	177.1	28.73	31.13	33.27	147.1	177.1	1.01	0.54	0.32
162.1	192.1	6.32	6.23	6.17	162.1	192.1	28.74	31.30	34.03	162.1	192.1	1.07	0.56	0.32
179.1	209.1	6.34	6.24	6.17	179.1	209.1	27.71	29.99	32.52	179.1	209.1	1.15	0.56	0.29
207.1	237.1	6.69	6.56	6.47	207.1	237.1	27.02	29.70	32.44	207.1	237.1	1.65	0.80	0.38
235.1	265.1	6.67	6.55	6.46	235.1	265.1	26.47	28.93	31.25	235.1	265.1	1.91	0.94	0.48
263.1	293.1	6.97	6.82	6.72	263.1	293.1	25.48	28.33	30.56	263.1	293.1	2.33	1.17	0.59
291.1	321.1	7.00	6.82	6.69	291.1	321.1	23.94	26.99	29.36	291.1	321.1	3.34	1.75	0.82
326.1	356.1	7.21	6.99	6.83	326.1	356.1	23.19	26.47	29.00	326.1	356.1	3.89	2.17	1.07
354.1	384.1	7.32	7.08	6.91	354.1	384.1	21.98	25.14	28.16	354.1	384.1	4.24	2.49	1.27
382.1	412.1	7.69	7.39	7.18	382.1	412.1	20.50	23.81	27.07	382.1	412.1	5.34	3.44	1.84
410.1	440.1	7.82	7.50	7.28	410.1	440.1	19.98	23.35	26.74	410.1	440.1	5.94	3.89	2.17
438.1	468.1	8.04	7.69	7.46	438.1	468.1	19.66	22.96	25.98	438.1	468.1	5.96	3.92	2.21
466.1	496.1	8.28	7.87	7.57	466.1	496.1	18.07	21.14	24.34	466.1	496.1	6.90	4.76	2.91
494.1	524.1	8.66	8.19	7.85	494.1	524.1	17.24	20.11	23.01	494.1	524.1	7.98	5.72	3.66
522.1	552.1	8.68	8.21	7.88	522.1	552.1	17.14	19.86	22.59	522.1	552.1	7.91	5.64	3.59
550.1	580.1	9.00	8.47	8.10	550.1	580.1	16.54	19.21	21.63	550.1	580.1	8.16	5.91	3.85
578.1	608.1	9.28	8.67	8.24	578.1	608.1	15.40	18.05	20.25	578.1	608.1	9.36	7.10	4.88
613.1	643.1	9.47	8.85	8.41	613.1	643.1	15.07	17.78	19.78	613.1	643.1	9.74	7.47	5.21
641.1	671.1	9.61	8.95	8.48	641.1	671.1	14.76	17.58	20.32	641.1	671.1	9.69	7.44	5.18
669.1	699.1	9.98	9.23	8.69	669.1	699.1	13.73	16.44	19.03	669.1	699.1	10.67	8.52	6.28
697.1	727.1	10.20	9.37	8.79	697.1	727.1	13.06	15.53	17.89	697.1	727.1	11.10	9.02	6.82
725.1	755.1	10.23	9.38	8.83	725.1	755.1	12.77	14.99	16.88	725.1	755.1	10.84	8.76	6.63
753.1	783.1	10.34	9.39	8.71	753.1	783.1	12.08	14.15	16.21	753.1	783.1	11.52	9.51	7.38
781.1	811.1	10.65	9.56	8.82	781.1	811.1	11.41	13.28	15.48	781.1	811.1	12.52	10.56	8.44
809.1	839.1	10.63	9.49	8.71	809.1	839.1	11.15	12.95	15.44	809.1	839.1	12.62	10.70	8.57
837.1	867.1	10.57	9.43	8.69	837.1	867.1	11.02	12.81	15.26	837.1	867.1	12.79	10.81	8.65
865.1	895.1	10.81	9.55	8.71	865.1	895.1	10.61	12.17	14.73	865.1	895.1	13.59	11.75	9.64
900.1	930.1	11.01	9.65	8.77	900.1	930.1	10.36	11.80	14.26	900.1	930.1	13.89	12.09	9.99
928.1	958.1	10.88	9.53	8.62	928.1	958.1	10.36	11.82	14.33	928.1	958.1	13.64	11.76	9.60
956.1	986.1	10.96	9.58	8.69	956.1	986.1	10.27	11.71	14.04	956.1	986.1	14.03	12.34	10.15
984.1	1014.1	11.31	9.82	8.84	984.1	1014.1	10.04	11.36	13.53	984.1	1014.1	14.32	12.66	10.62
1005.1	1035.1	11.38	9.89	8.94	1005.1	1035.1	10.02	11.35	13.53	1005.1	1035.1	14.18	12.42	10.31

Frequency Mixer

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=135.1MHz (dB)
		@LO (dBm) +17
125.1	10.0	7.35
119.1	16.0	6.76
113.1	22.0	6.54
107.1	28.0	6.40
101.1	34.0	6.30
96.1	39.0	6.24
90.1	45.0	6.19
84.1	51.0	6.14
78.1	57.0	6.09
72.1	63.0	6.05
66.1	69.0	6.02
60.1	75.0	5.98
54.1	81.0	5.94
48.1	87.0	5.95
42.1	93.0	5.95
37.1	98.0	5.94
31.1	104.0	5.92
25.1	110.0	5.90
19.1	116.0	5.90
13.1	122.0	5.92
9.9	145.0	5.97
17.9	153.0	6.00
25.9	161.0	6.01
33.9	169.0	6.06
41.9	177.0	6.11
49.9	185.0	6.13
57.9	193.0	6.15
65.9	201.0	6.20
73.9	209.0	6.25
81.9	217.0	6.28
89.9	225.0	6.30
97.9	233.0	6.34
105.9	241.0	6.38
113.9	249.0	6.42
121.9	257.0	6.47
129.9	265.0	6.51
137.9	273.0	6.54
145.9	281.0	6.59
153.9	289.0	6.63
161.9	297.0	6.67

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=108.1MHz (dB)
		@LO (dBm) +17
9.9	118.0	5.79
14.9	123.0	5.81
19.9	128.0	5.83
24.9	133.0	5.86
29.9	138.0	5.91
33.9	142.0	5.93
38.9	147.0	5.96
43.9	152.0	5.98
48.9	157.0	6.01
53.9	162.0	6.04
58.9	167.0	6.05
63.9	172.0	6.07
68.9	177.0	6.09
73.9	182.0	6.10
78.9	187.0	6.11
82.9	191.0	6.12
87.9	196.0	6.10
92.9	201.0	6.11
97.9	206.0	6.13
102.9	211.0	6.16
107.9	216.0	6.19
112.9	221.0	6.19
117.9	226.0	6.22
122.9	231.0	6.25
127.9	236.0	6.29
131.9	240.0	6.34
136.9	245.0	6.40
141.9	250.0	6.45
146.9	255.0	6.48
151.9	260.0	6.53
156.9	265.0	6.56
161.9	270.0	6.56
166.9	275.0	6.54
171.9	280.0	6.53
176.9	285.0	6.53
180.9	289.0	6.53
185.9	294.0	6.53
190.9	299.0	6.54
195.9	304.0	6.54
199.9	308.0	6.54

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=162.1MHz (dB)
		@LO (dBm) +17
152.1	10.0	7.65
148.1	14.0	7.16
145.1	17.0	6.95
141.1	21.0	6.77
137.1	25.0	6.65
134.1	28.0	6.57
130.1	32.0	6.48
126.1	36.0	6.41
123.1	39.0	6.37
119.1	43.0	6.32
115.1	47.0	6.27
112.1	50.0	6.23
108.1	54.0	6.22
104.1	58.0	6.18
101.1	61.0	6.16
97.1	65.0	6.14
93.1	69.0	6.12
90.1	72.0	6.10
86.1	76.0	6.10
82.1	80.0	6.10
79.1	83.0	6.10
75.1	87.0	6.08
71.1	91.0	6.07
68.1	94.0	6.07
64.1	98.0	6.08
60.1	102.0	6.08
57.1	105.0	6.08
53.1	109.0	6.08
49.1	113.0	6.07
46.1	116.0	6.05
42.1	120.0	6.05
38.1	124.0	6.04
35.1	127.0	6.04
31.1	131.0	6.04
27.1	135.0	6.03
24.1	138.0	6.02
20.1	142.0	5.99
16.1	146.0	5.97
13.1	149.0	5.97
10.1	152.0	5.96

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LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
40.1	57.91	57.64	55.91	57.20	56.93	55.40
60.1	53.76	53.53	51.68	53.51	53.24	51.86
80.1	51.63	51.35	50.66	51.21	50.82	50.70
100.1	51.14	50.80	51.06	50.34	49.92	50.19
120.1	50.08	49.71	50.11	49.89	49.44	49.77
141.1	49.92	49.53	49.78	49.92	49.46	49.63
153.1	50.06	49.68	50.02	50.17	49.72	49.99
165.1	49.96	49.59	49.92	50.52	50.02	50.24
177.1	49.91	49.52	49.83	50.52	50.03	50.22
192.1	50.20	49.81	50.26	50.76	50.24	50.58
209.1	50.77	50.38	50.67	51.58	51.09	51.25
237.1	52.14	51.73	51.50	53.62	53.11	52.75
265.1	52.70	52.31	52.06	54.46	53.98	53.63
293.1	53.75	53.32	52.62	55.49	54.92	54.00
321.1	55.58	55.15	54.15	57.72	57.08	55.67
356.1	57.13	56.71	55.14	59.37	58.63	56.29
384.1	58.74	58.37	57.83	61.70	61.11	60.38
412.1	60.38	60.01	59.05	64.52	63.70	62.06
440.1	61.17	60.77	60.00	67.80	67.16	65.92
468.1	60.96	60.42	58.29	68.61	68.18	64.53
496.1	62.19	61.55	60.65	71.90	71.69	69.03
524.1	62.91	62.06	60.62	72.69	76.98	74.29
552.1	63.26	62.26	61.47	71.33	75.52	80.66
580.1	63.07	61.91	60.54	70.87	74.93	78.49
608.1	63.28	62.04	60.77	71.24	77.33	84.27
643.1	61.53	60.23	58.22	73.39	77.65	72.99
671.1	59.84	58.62	57.62	68.51	70.01	70.16
699.1	59.84	58.65	57.32	66.84	68.33	70.22
727.1	60.08	59.03	57.93	64.75	65.59	66.88
755.1	60.10	59.27	57.11	61.92	61.95	63.80
783.1	61.10	60.54	60.55	60.63	60.32	59.58
811.1	61.37	60.92	60.75	60.92	60.61	60.14
839.1	60.77	60.47	60.80	61.05	60.82	60.18
867.1	59.69	59.53	59.47	60.99	60.75	60.25
895.1	59.67	59.60	60.86	61.43	61.22	60.30
930.1	59.14	59.07	60.11	61.83	61.63	60.77
958.1	58.03	57.89	57.81	61.98	61.73	61.37
986.1	57.37	57.21	57.36	61.88	61.54	60.85
1014.1	57.18	56.95	56.77	62.05	61.78	61.55
1035.1	56.52	56.30	56.04	61.77	61.56	61.46

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	36.45	33.52	27.28
30.1	60.1	37.39	33.07	23.69
50.1	80.1	41.21	37.31	28.27
70.1	100.1	42.10	40.48	33.24
90.1	120.1	42.61	42.74	35.43
111.1	141.1	42.19	43.37	36.70
123.1	153.1	43.13	44.47	36.69
135.1	165.1	43.39	45.17	35.79
147.1	177.1	43.74	45.96	34.05
162.1	192.1	44.05	46.01	28.80
179.1	209.1	44.47	46.55	31.24
207.1	237.1	46.28	48.33	37.87
235.1	265.1	47.13	47.83	43.30
263.1	293.1	47.67	48.48	47.14
291.1	321.1	46.95	47.42	41.19
326.1	356.1	47.40	47.51	37.24
354.1	384.1	47.97	47.65	47.44
382.1	412.1	47.89	47.79	47.63
410.1	440.1	47.32	47.17	46.73
438.1	468.1	47.08	46.96	42.18
466.1	496.1	47.13	46.55	44.55
494.1	524.1	47.02	46.92	48.79
522.1	552.1	46.46	46.37	45.42
550.1	580.1	46.87	46.59	48.66
578.1	608.1	46.43	45.52	47.11
613.1	643.1	45.53	44.27	40.28
641.1	671.1	46.23	45.33	43.46
669.1	699.1	47.65	46.90	46.99
697.1	727.1	48.14	46.87	46.23
725.1	755.1	47.36	45.07	46.01
753.1	783.1	47.98	45.27	47.00
781.1	811.1	49.00	47.10	47.47
809.1	839.1	48.49	47.85	48.15
837.1	867.1	47.80	47.99	46.81
865.1	895.1	46.72	46.47	39.71
900.1	930.1	45.18	43.72	37.00
928.1	958.1	44.91	43.47	41.36
956.1	986.1	44.73	42.31	37.97
984.1	1014.1	44.95	42.69	39.02
1005.1	1035.1	44.99	42.44	37.83



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IF/RF MICROWAVE COMPONENTS

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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=192.1MHz (:1)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+14	+17	+20			+14	+17	+20			+14	+17	+20
10.1	40.1	1.07	1.06	1.08		40.1	34.86	36.43	35.15		10.0	1.33	1.38	1.43
30.1	60.1	1.17	1.19	1.21		60.1	5.35	5.31	5.23		14.0	1.34	1.40	1.44
50.1	80.1	1.26	1.28	1.30		80.1	2.92	2.91	2.89		19.0	1.35	1.41	1.46
70.1	100.1	1.39	1.41	1.44		100.1	1.86	1.86	1.86		23.0	1.36	1.42	1.46
90.1	120.1	1.44	1.46	1.48		120.1	1.27	1.26	1.26		28.0	1.36	1.42	1.47
111.1	141.1	1.57	1.58	1.60		141.1	1.19	1.19	1.19		32.0	1.36	1.41	1.46
123.1	153.1	1.60	1.62	1.64		153.1	1.43	1.43	1.44		37.0	1.37	1.43	1.48
135.1	165.1	1.62	1.63	1.64		165.1	1.72	1.72	1.73		41.0	1.35	1.41	1.46
147.1	177.1	1.66	1.67	1.67		177.1	2.05	2.06	2.07		45.0	1.33	1.39	1.43
162.1	192.1	1.75	1.76	1.76		192.1	2.54	2.55	2.54		50.0	1.33	1.38	1.42
179.1	209.1	1.76	1.76	1.76		209.1	3.15	3.16	3.14		54.0	1.33	1.38	1.43
207.1	237.1	1.87	1.86	1.86		237.1	4.30	4.30	4.29		59.0	1.35	1.40	1.44
235.1	265.1	1.91	1.89	1.88		265.1	5.68	5.67	5.62		63.0	1.36	1.41	1.45
263.1	293.1	2.02	1.98	1.95		293.1	7.18	7.09	6.86		68.0	1.38	1.43	1.47
291.1	321.1	2.10	2.04	1.99		321.1	8.64	8.54	8.28		72.0	1.39	1.44	1.49
326.1	356.1	2.20	2.11	2.04		356.1	10.72	10.52	9.88		77.0	1.40	1.45	1.49
354.1	384.1	2.36	2.25	2.16		384.1	12.29	11.88	11.03		81.0	1.40	1.45	1.49
382.1	412.1	2.49	2.35	2.23		412.1	13.69	13.30	12.36		85.0	1.40	1.45	1.49
410.1	440.1	2.65	2.48	2.35		440.1	15.34	14.94	14.06		90.0	1.39	1.44	1.49
438.1	468.1	2.84	2.65	2.51		468.1	16.94	16.16	14.02		94.0	1.39	1.44	1.48
466.1	496.1	3.05	2.83	2.66		496.1	18.23	17.43	15.62		99.0	1.39	1.44	1.48
494.1	524.1	3.33	3.09	2.91		524.1	19.77	19.33	17.59		103.0	1.40	1.44	1.48
522.1	552.1	3.52	3.27	3.06		552.1	21.46	20.92	19.17		108.0	1.41	1.46	1.49
550.1	580.1	3.71	3.46	3.26		580.1	23.46	23.17	20.85		112.0	1.43	1.47	1.51
578.1	608.1	4.05	3.79	3.59		608.1	25.24	26.05	24.86		116.0	1.45	1.49	1.53
613.1	643.1	4.24	4.01	3.85		643.1	28.98	31.76	30.23		121.0	1.47	1.51	1.55
641.1	671.1	4.35	4.14	3.95		671.1	32.24	35.63	34.73		125.0	1.48	1.53	1.57
669.1	699.1	4.38	4.18	4.03		699.1	30.69	33.58	32.68		130.0	1.50	1.54	1.58
697.1	727.1	4.19	3.94	3.73		727.1	30.57	33.00	30.96		134.0	1.50	1.55	1.59
725.1	755.1	3.96	3.67	3.46		755.1	31.85	33.78	27.40		139.0	1.50	1.55	1.58
753.1	783.1	3.81	3.51	3.18		783.1	33.40	36.50	34.68		143.0	1.50	1.54	1.58
781.1	811.1	3.70	3.41	3.13		811.1	33.29	37.06	36.12		148.0	1.49	1.53	1.57
809.1	839.1	3.53	3.26	3.01		839.1	35.68	41.68	42.74		152.0	1.49	1.53	1.56
837.1	867.1	3.27	3.02	2.78		867.1	36.23	41.22	41.13		156.0	1.49	1.53	1.56
865.1	895.1	3.06	2.83	2.60		895.1	33.87	37.64	41.48		161.0	1.51	1.54	1.58
900.1	930.1	2.77	2.59	2.39		930.1	33.23	36.85	39.58		165.0	1.53	1.56	1.59
928.1	958.1	2.51	2.36	2.22		958.1	31.85	34.57	34.68		170.0	1.56	1.59	1.62
956.1	986.1	2.33	2.22	2.12		986.1	29.84	31.16	31.32		174.0	1.58	1.61	1.64
984.1	1014.1	2.14	2.07	2.01		1014.1	29.14	29.89	30.26		179.0	1.59	1.63	1.66
1005.1	1035.1	2.01	1.97	1.95		1035.1	28.63	28.76	27.42		182.0	1.60	1.64	1.67



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IF/RF MICROWAVE COMPONENTS

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	26.22	23.64	30.61	37.67	35.77	51.68	44.89	39.13	47.32	47.94
1	---	39.53	---	42.76	11.48	45.36	16.26	52.31	21.94	47.72	36.03	43.93
2	100.42	56.18	58.00	56.72	54.91	52.58	53.18	53.62	57.51	50.52	49.39	46.79
3	113.43	94.46	66.29	81.59	65.49	76.92	66.12	74.16	65.29	73.26	66.38	76.18
4	113.99	106.39	106.62	108.17	103.15	100.96	99.36	94.77	95.82	94.13	102.85	104.23
5	112.11	107.47	102.59	106.76	102.37	104.74	94.81	110.65	96.54	105.16	99.81	106.49
6	111.76	99.71	104.97	96.74	109.98	95.37	104.24	102.79	105.70	101.32	107.08	105.65
7	96.17	102.09	94.24	95.58	94.85	98.87	101.96	103.22	107.82	104.82	106.16	119.66
8	112.51	66.41	73.26	65.29	74.11	66.12	76.95	65.47	81.67	66.28	94.78	68.67
9	112.27	49.40	50.53	57.52	53.62	53.17	52.57	54.90	56.73	58.00	56.16	55.49
10	114.96	36.03	47.73	21.94	52.31	16.26	45.36	11.47	42.76	---	39.50	0.76
		0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 135.0 MHz; 0 dBm.
 LO IN: 165.0 MHz; +17.00 dBm
 IF OUT: 30.0 MHz; -5.85 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	30.14	36.99	53.50	35.53	41.19	37.91	40.70	38.46	36.48	39.31
1	---	40.36	---	42.21	11.85	49.29	18.17	50.11	27.39	44.10	32.77	48.88
2	79.14	45.35	42.32	43.26	41.98	44.10	44.25	38.13	49.25	39.48	41.07	38.51
3	84.04	72.45	53.68	62.28	50.99	58.76	51.13	58.39	49.59	53.43	49.77	58.79
4	114.44	74.99	74.77	74.46	81.46	78.97	78.92	80.45	75.38	68.70	68.32	67.22
5	113.01	75.96	73.16	79.37	68.83	91.39	74.34	97.76	73.20	79.08	69.34	78.06
6	113.00	69.37	79.08	73.16	97.44	74.36	91.64	68.81	79.29	73.25	75.77	72.37
7	114.52	68.32	68.64	75.37	80.36	78.96	78.97	81.34	74.55	74.72	75.02	73.02
8	114.41	49.77	53.42	49.58	58.38	51.11	58.75	51.00	62.28	53.69	72.43	57.33
9	114.06	41.07	39.48	49.25	38.12	44.25	44.10	41.98	43.26	42.32	45.34	50.54
10	112.58	32.76	44.09	27.38	50.10	18.17	49.31	11.85	42.21	---	40.35	---
		0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 135.0 MHz; +10 dBm.
 LO IN: 165.0 MHz; +17.00 dBm
 IF OUT: 30.0 MHz; +4.63 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 represents the Harmonics level of the RF Input Signal to the mixer