

Frequency Mixer

MWJ-ED13697/1

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=+20dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+14	+17	+20			+14	+17	+20			+14	+17	+20
10.1	40.1	8.86	8.17	7.42	10.1	40.1	12.08	14.68	18.08	10.1	40.1	10.80	8.90	7.36
25.1	55.1	8.45	7.75	7.36	25.1	55.1	13.62	16.76	20.16	25.1	55.1	9.43	7.64	5.74
43.1	73.1	8.02	7.51	7.15	43.1	73.1	15.45	18.73	21.92	43.1	73.1	8.20	6.34	4.44
58.1	88.1	7.72	7.31	7.03	58.1	88.1	17.56	20.74	23.38	58.1	88.1	6.16	4.28	2.59
76.1	106.1	7.49	7.23	7.03	76.1	106.1	20.50	23.13	25.41	76.1	106.1	5.50	3.61	2.09
91.1	121.1	7.36	7.15	6.98	91.1	121.1	22.31	24.75	27.23	91.1	121.1	4.28	2.52	1.32
109.1	139.1	7.34	7.11	6.95	109.1	139.1	23.34	25.93	28.51	109.1	139.1	2.78	1.52	0.80
124.1	154.1	7.26	7.05	6.90	124.1	154.1	23.98	26.79	29.45	124.1	154.1	2.73	1.49	0.81
139.1	169.1	7.11	6.90	6.77	139.1	169.1	24.94	27.78	29.98	139.1	169.1	2.07	1.10	0.61
157.1	187.1	7.11	6.97	6.85	157.1	187.1	26.39	28.86	30.92	157.1	187.1	1.66	0.89	0.51
172.1	202.1	7.17	7.07	6.95	172.1	202.1	27.82	29.98	32.32	172.1	202.1	1.51	0.79	0.48
190.1	220.1	7.20	7.07	6.95	190.1	220.1	28.55	30.95	33.17	190.1	220.1	1.09	0.61	0.37
205.1	235.1	7.22	7.09	7.01	205.1	235.1	28.78	31.23	32.89	205.1	235.1	1.07	0.60	0.37
223.1	253.1	7.11	6.98	6.90	223.1	253.1	29.22	31.32	33.84	223.1	253.1	0.93	0.53	0.33
238.1	268.1	7.08	6.95	6.86	238.1	268.1	29.78	31.92	35.00	238.1	268.1	0.89	0.52	0.32
256.1	286.1	7.17	7.06	6.99	256.1	286.1	30.11	32.55	34.65	256.1	286.1	0.86	0.49	0.30
271.1	301.1	7.25	7.13	7.05	271.1	301.1	30.13	32.13	34.30	271.1	301.1	0.80	0.45	0.29
286.1	316.1	7.28	7.16	7.07	286.1	316.1	30.17	32.39	34.08	286.1	316.1	0.90	0.52	0.31
304.1	334.1	7.25	7.14	7.06	304.1	334.1	30.10	32.90	34.63	304.1	334.1	0.87	0.50	0.30
319.1	349.1	7.20	7.07	6.99	319.1	349.1	29.82	33.43	35.27	319.1	349.1	0.97	0.55	0.33
337.1	367.1	7.18	7.04	6.96	337.1	367.1	30.01	32.81	35.71	337.1	367.1	1.03	0.57	0.34
352.1	382.1	7.29	7.17	7.07	352.1	382.1	29.55	32.39	35.83	352.1	382.1	0.87	0.49	0.31
370.1	400.1	7.38	7.24	7.14	370.1	400.1	29.56	32.69	35.74	370.1	400.1	1.23	0.65	0.38
385.1	415.1	7.42	7.29	7.18	385.1	415.1	29.53	32.27	34.37	385.1	415.1	1.27	0.67	0.36
405.1	435.1	7.41	7.26	7.16	405.1	435.1	29.64	32.57	34.11	405.1	435.1	1.10	0.60	0.34
480.1	510.1	7.53	7.37	7.20	480.1	510.1	27.41	30.94	34.49	480.1	510.1	1.49	0.73	0.38
555.1	585.1	7.67	7.45	7.27	555.1	585.1	25.31	29.61	33.64	555.1	585.1	2.52	1.18	0.56
645.1	675.1	8.08	7.81	7.60	645.1	675.1	25.33	27.30	28.28	645.1	675.1	3.23	1.55	0.71
720.1	750.1	8.41	8.12	7.87	720.1	750.1	21.50	23.26	25.06	720.1	750.1	3.59	1.90	1.00
810.1	840.1	8.84	8.59	8.38	810.1	840.1	22.88	25.60	28.24	810.1	840.1	4.05	2.34	1.18
885.1	915.1	8.95	8.68	8.50	885.1	915.1	22.55	25.72	28.94	885.1	915.1	4.06	2.35	1.12
975.1	1005.1	9.09	8.81	8.64	975.1	1005.1	21.97	25.35	28.88	975.1	1005.1	4.29	2.60	1.31
1050.1	1080.1	9.23	8.94	8.76	1050.1	1080.1	21.81	25.32	28.95	1050.1	1080.1	4.72	2.93	1.53
1125.1	1155.1	9.28	8.93	8.69	1125.1	1155.1	21.12	24.86	28.69	1125.1	1155.1	5.02	3.18	1.65
1215.1	1245.1	9.52	9.10	8.80	1215.1	1245.1	20.37	24.12	28.11	1215.1	1245.1	5.48	3.54	1.92
1290.1	1320.1	9.89	9.43	9.10	1290.1	1320.1	20.54	24.27	27.80	1290.1	1320.1	5.75	3.80	2.05
1380.1	1410.1	10.24	9.74	9.36	1380.1	1410.1	20.61	23.54	25.97	1380.1	1410.1	6.13	4.10	2.30
1455.1	1485.1	10.27	9.76	9.37	1455.1	1485.1	19.65	22.33	24.71	1455.1	1485.1	6.57	4.45	2.61
1545.1	1575.1	10.37	9.85	9.46	1545.1	1575.1	19.13	21.81	24.36	1545.1	1575.1	6.49	4.46	2.71
1605.1	1635.1	10.51	9.99	9.61	1605.1	1635.1	19.19	22.18	25.13	1605.1	1635.1	6.16	4.29	2.70

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=807MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1605MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
786.9	20.1	11.60	10.1	20.1	9.79	850.9	754.1	10.43
746.9	60.1	9.62	50.1	60.1	7.56	830.9	774.1	10.27
706.9	100.1	8.65	90.1	100.1	7.18	810.9	794.1	10.13
666.9	140.1	8.41	130.1	140.1	7.04	780.9	824.1	10.13
626.9	180.1	8.04	170.1	180.1	7.10	760.9	844.1	10.23
586.9	220.1	8.00	210.1	220.1	6.99	740.9	864.1	10.10
546.9	260.1	7.96	250.1	260.1	7.36	720.9	884.1	9.88
506.9	300.1	7.92	290.1	300.1	7.18	700.9	904.1	9.93
466.9	340.1	7.90	330.1	340.1	7.32	680.9	924.1	10.06
426.9	380.1	7.93	370.1	380.1	7.25	650.9	954.1	9.97
386.9	420.1	7.61	390.1	400.1	7.18	630.9	974.1	9.84
346.9	460.1	7.90	430.1	440.1	7.64	610.9	994.1	9.86
306.9	500.1	7.96	470.1	480.1	7.70	590.9	1014.1	9.87
266.9	540.1	8.21	510.1	520.1	7.70	570.9	1034.1	9.86
226.9	580.1	8.21	550.1	560.1	7.74	540.9	1064.1	9.81
186.9	620.1	8.21	590.1	600.1	7.96	520.9	1084.1	9.71
146.9	660.1	8.27	630.1	640.1	7.77	500.9	1104.1	9.72
106.9	700.1	8.21	670.1	680.1	8.07	480.9	1124.1	9.70
66.9	740.1	8.26	710.1	720.1	7.87	460.9	1144.1	9.71
26.9	780.1	8.23	750.1	760.1	8.27	440.9	1164.1	9.73
13.1	820.1	8.35	790.1	800.1	8.44	410.9	1194.1	9.60
63.1	870.1	8.56	830.1	840.1	8.62	390.9	1214.1	9.51
103.1	910.1	8.64	870.1	880.1	8.93	370.9	1234.1	9.71
153.1	960.1	8.74	910.1	920.1	8.70	350.9	1254.1	9.74
193.1	1000.1	8.82	950.1	960.1	8.92	330.9	1274.1	9.79
243.1	1050.1	9.01	990.1	1000.1	8.87	310.9	1294.1	9.78
283.1	1090.1	9.07	1030.1	1040.1	8.84	280.9	1324.1	9.84
333.1	1140.1	9.05	1070.1	1080.1	8.88	260.9	1344.1	9.91
383.1	1190.1	8.89	1110.1	1120.1	8.73	240.9	1364.1	9.88
423.1	1230.1	9.09	1150.1	1160.1	8.77	220.9	1384.1	9.80
473.1	1280.1	9.16	1170.1	1180.1	8.85	200.9	1404.1	9.73
513.1	1320.1	9.22	1210.1	1220.1	9.01	170.9	1434.1	9.74
563.1	1370.1	9.37	1250.1	1260.1	9.30	150.9	1454.1	9.74
603.1	1410.1	9.42	1290.1	1300.1	9.47	130.9	1474.1	9.68
653.1	1460.1	9.54	1330.1	1340.1	9.60	110.9	1494.1	9.69
693.1	1500.1	9.62	1370.1	1380.1	10.05	90.9	1514.1	9.65
743.1	1550.1	9.75	1410.1	1420.1	10.34	70.9	1534.1	9.62
793.1	1600.1	9.91	1450.1	1460.1	10.68	40.9	1564.1	9.70
833.1	1640.1	10.17	1490.1	1500.1	11.01	20.9	1584.1	9.67
883.1	1690.1	10.40	1510.1	1520.1	11.50	10.9	1594.1	9.88

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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)		
	+14	+17	+20	+14	+17	+20			+14	+17	+20
40.1	71.80	71.38	72.53	69.35	70.15	67.11	10.1	40.1	34.82	37.54	38.56
55.1	69.69	70.18	71.80	67.50	67.39	66.41	25.1	55.1	44.86	47.45	43.30
73.1	70.44	70.02	68.75	65.18	64.66	64.38	43.1	73.1	38.46	39.05	36.94
88.1	68.55	67.23	66.61	63.64	63.23	62.69	58.1	88.1	43.75	45.81	47.09
106.1	64.52	64.62	64.67	61.04	60.43	60.51	76.1	106.1	46.74	50.32	47.46
121.1	61.72	60.72	60.25	58.12	57.68	57.14	91.1	121.1	39.47	38.09	36.53
139.1	60.71	60.36	59.97	57.79	57.34	57.14	109.1	139.1	49.21	46.33	43.54
154.1	60.01	59.52	59.20	56.80	56.36	56.03	124.1	154.1	46.33	46.23	45.94
169.1	58.46	58.02	57.53	55.58	55.40	54.91	139.1	169.1	46.46	47.26	46.73
187.1	57.16	56.68	56.40	54.63	54.21	53.99	157.1	187.1	48.94	47.65	46.63
202.1	55.37	55.11	54.72	52.69	52.32	51.97	172.1	202.1	46.42	45.67	43.59
220.1	54.00	53.66	53.31	52.13	51.89	51.63	190.1	220.1	48.89	48.71	48.25
235.1	53.15	52.99	52.81	52.09	51.81	51.53	205.1	235.1	48.91	48.19	48.15
253.1	52.34	52.10	51.91	51.32	50.99	50.81	223.1	253.1	48.69	48.73	48.58
268.1	51.89	51.63	51.51	51.01	50.75	50.48	238.1	268.1	48.28	47.78	48.06
286.1	51.05	50.93	50.76	50.19	49.91	49.68	256.1	286.1	48.08	48.14	47.47
301.1	50.98	50.82	50.70	50.11	49.77	49.53	271.1	301.1	48.36	48.29	48.28
316.1	51.06	50.84	50.73	50.26	49.92	49.73	286.1	316.1	47.55	47.11	46.97
334.1	50.61	50.39	50.26	49.95	49.66	49.43	304.1	334.1	47.31	46.79	46.97
349.1	50.48	50.28	50.17	49.94	49.57	49.37	319.1	349.1	46.41	45.19	44.98
367.1	50.26	50.08	49.97	50.08	49.65	49.42	337.1	367.1	46.56	46.21	46.67
382.1	50.80	50.60	50.41	50.65	50.22	49.92	352.1	382.1	46.60	46.25	46.06
400.1	52.07	52.07	52.06	52.32	51.98	51.70	370.1	400.1	46.31	46.31	45.86
415.1	52.38	52.32	52.27	52.64	52.23	51.97	385.1	415.1	44.64	44.66	43.74
435.1	52.30	52.31	52.27	52.60	52.23	51.92	405.1	435.1	44.89	45.14	44.98
510.1	51.75	51.63	51.48	55.73	55.37	55.09	480.1	510.1	45.73	45.55	45.72
585.1	49.99	49.75	49.63	54.86	54.09	53.62	555.1	585.1	44.05	43.01	42.65
675.1	48.08	47.73	47.49	53.30	52.17	51.41	645.1	675.1	42.32	41.06	40.17
750.1	45.32	44.83	44.48	50.00	48.75	48.27	720.1	750.1	40.72	39.34	38.39
840.1	49.10	48.43	47.97	45.07	44.31	43.77	810.1	840.1	34.74	34.02	33.24
915.1	53.75	53.05	52.46	47.55	47.04	46.68	885.1	915.1	37.98	37.29	36.32
1005.1	52.23	52.63	53.03	50.77	50.36	50.19	975.1	1005.1	42.61	42.22	41.12
1080.1	51.69	52.21	52.74	51.38	51.00	50.66	1050.1	1080.1	42.99	43.00	42.62
1155.1	48.10	48.44	48.74	50.80	50.59	50.44	1125.1	1155.1	41.27	41.06	40.75
1245.1	46.62	46.92	47.20	48.52	48.38	48.18	1215.1	1245.1	39.16	38.97	38.94
1320.1	44.81	45.01	45.11	47.69	47.73	47.77	1290.1	1320.1	38.45	38.56	38.51
1410.1	42.83	42.81	42.74	47.38	47.53	47.68	1380.1	1410.1	39.89	40.47	40.76
1485.1	45.35	45.29	45.20	52.09	52.72	53.36	1455.1	1485.1	45.26	47.25	48.56
1575.1	43.00	42.65	42.31	51.31	51.07	50.91	1545.1	1575.1	40.67	39.82	38.88
1635.1	40.74	40.71	40.61	45.36	45.20	45.08	1605.1	1635.1	38.27	37.57	36.96



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IF/RF MICROWAVE COMPONENTS

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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=1635.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
10.1	40.1	1.06	1.22	1.26	55.1	9.54	9.32	9.85	10.1	1.60	1.76	1.99
25.1	55.1	1.07	1.15	1.21	73.1	2.45	2.43	2.44	14.1	1.43	1.65	1.76
43.1	73.1	1.20	1.26	1.32	88.1	1.97	1.97	1.97	17.1	1.41	1.55	1.71
58.1	88.1	1.23	1.28	1.35	103.1	3.77	3.76	3.80	21.1	1.45	1.64	1.80
76.1	106.1	1.32	1.38	1.45	118.1	20.53	20.15	21.54	25.1	1.47	1.64	1.82
91.1	121.1	1.39	1.45	1.50	136.1	9.57	9.57	9.51	28.1	1.48	1.65	1.82
109.1	139.1	1.45	1.51	1.56	151.1	10.41	10.42	10.54	32.1	1.45	1.62	1.76
124.1	154.1	1.54	1.60	1.65	166.1	5.66	5.66	5.66	35.1	1.41	1.58	1.73
139.1	169.1	1.56	1.61	1.66	184.1	3.90	3.90	3.90	39.1	1.39	1.55	1.69
157.1	187.1	1.59	1.63	1.67	199.1	3.25	3.25	3.25	45.1	1.40	1.55	1.70
172.1	202.1	1.61	1.66	1.71	214.1	2.95	2.95	2.95	46.1	1.41	1.56	1.70
190.1	220.1	1.63	1.67	1.71	232.1	2.44	2.44	2.44	50.1	1.41	1.56	1.70
205.1	235.1	1.68	1.73	1.77	247.1	1.99	1.99	1.99	54.1	1.41	1.55	1.69
223.1	253.1	1.69	1.73	1.77	268.1	1.65	1.65	1.65	57.1	1.41	1.56	1.70
238.1	268.1	1.72	1.76	1.79	280.1	1.63	1.63	1.63	61.1	1.42	1.56	1.70
256.1	286.1	1.69	1.72	1.75	295.1	1.74	1.74	1.74	65.1	1.41	1.55	1.69
271.1	301.1	1.67	1.70	1.73	310.1	1.97	1.97	1.97	68.1	1.40	1.55	1.69
286.1	316.1	1.66	1.68	1.71	325.1	2.21	2.21	2.21	72.1	1.40	1.56	1.70
304.1	334.1	1.68	1.70	1.72	343.1	2.50	2.50	2.50	76.1	1.43	1.57	1.71
319.1	349.1	1.69	1.71	1.72	358.1	2.79	2.79	2.79	79.1	1.44	1.58	1.72
337.1	367.1	1.68	1.68	1.69	373.1	3.17	3.17	3.17	83.1	1.43	1.57	1.70
352.1	382.1	1.68	1.68	1.68	391.1	3.80	3.80	3.80	86.1	1.42	1.55	1.68
370.1	400.1	1.64	1.63	1.63	406.1	4.40	4.40	4.40	90.1	1.42	1.55	1.68
385.1	415.1	1.66	1.65	1.65	421.1	4.99	4.99	4.99	94.1	1.43	1.56	1.69
405.1	435.1	1.70	1.68	1.67	450.1	5.81	5.81	5.81	97.1	1.45	1.58	1.71
480.1	510.1	1.90	1.85	1.81	540.1	9.78	9.78	9.78	102.1	1.46	1.58	1.71
555.1	585.1	2.39	2.31	2.24	615.1	21.54	21.54	21.54	110.1	1.44	1.56	1.69
645.1	675.1	3.10	3.01	2.92	690.1	37.45	37.45	37.45	116.1	1.43	1.55	1.67
720.1	750.1	3.35	3.27	3.18	780.1	43.33	43.33	43.33	124.1	1.41	1.52	1.63
810.1	840.1	2.58	2.49	2.41	855.1	18.15	18.15	18.15	132.1	1.41	1.50	1.61
885.1	915.1	2.31	2.21	2.13	930.1	9.82	9.82	9.82	138.1	1.41	1.51	1.61
975.1	1005.1	2.07	1.93	1.82	1020.1	10.29	10.29	10.29	146.1	1.42	1.51	1.62
1050.1	1080.1	2.08	1.92	1.79	1095.1	9.51	9.51	9.51	154.1	1.43	1.52	1.62
1125.1	1155.1	2.35	2.21	2.10	1170.1	13.39	13.39	13.39	160.1	1.44	1.51	1.61
1215.1	1245.1	2.76	2.65	2.55	1260.1	12.16	12.16	12.16	168.1	1.43	1.51	1.59
1290.1	1320.1	2.92	2.81	2.72	1335.1	15.10	15.10	15.10	174.1	1.43	1.49	1.57
1380.1	1410.1	2.78	2.69	2.60	1410.1	13.94	13.94	13.94	182.1	1.43	1.49	1.56
1455.1	1485.1	2.50	2.40	2.32	1485.1	10.54	10.54	10.54	190.1	1.45	1.49	1.56
1545.1	1575.1	2.11	2.03	1.96	1575.1	8.46	8.46	8.46	196.1	1.45	1.50	1.57
1605.1	1635.1	1.89	1.81	1.74	1635.1	7.39	7.39	7.39	202.1	1.46	1.50	1.56

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	19.97	22.32	45.44	51.28	49.43	116.98	118.43	110.20	115.01	114.77
1	---	25.25	---	25.02	17.38	47.47	54.21	49.21	105.02	111.23	109.38	107.10
2	91.92	52.78	60.23	58.06	60.91	55.32	77.79	70.14	73.46	118.79	117.00	117.48
3	113.79	87.09	62.57	68.47	58.54	65.81	65.96	83.62	87.66	81.64	118.60	116.48
4	115.52	119.77	112.83	95.67	96.31	85.39	90.63	89.45	111.57	104.77	101.23	118.62
5	114.14	119.48	117.74	117.78	96.98	110.54	101.25	105.62	106.73	117.33	120.61	118.32
6	115.80	119.79	118.38	118.29	119.24	116.51	106.07	113.74	102.23	118.22	117.36	118.17
7	113.56	118.21	119.11	116.89	119.15	118.53	107.81	101.57	111.30	106.84	114.30	118.77
8	113.93	118.32	116.50	118.63	118.94	120.56	117.99	114.68	102.24	112.21	102.94	118.91
9	115.68	119.34	118.82	118.15	118.64	117.05	118.21	116.35	116.11	108.10	111.01	108.90
10	115.12	119.13	117.98	119.08	118.02	118.89	118.78	118.07	119.71	114.86	107.33	110.35
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 807.0 MHz; 0 dBm.
LO IN: 837.0 MHz; +17.00 dBm
IF OUT: 30.0 MHz; -8.58 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	32.36	33.90	49.81	63.37	57.54	113.20	121.55	119.23	117.67	122.38
1	---	25.88	---	25.81	18.03	49.76	67.79	52.55	102.66	118.11	110.57	113.67
2	81.63	41.56	53.01	46.63	51.47	47.21	70.22	60.56	66.51	115.93	121.60	122.45
3	103.50	68.68	42.42	51.09	40.12	49.00	49.21	67.28	71.34	67.05	120.00	121.40
4	105.23	83.02	77.26	62.58	65.99	55.09	61.79	60.25	80.15	79.90	76.07	122.40
5	103.85	101.71	89.67	82.19	64.79	66.41	62.35	63.72	69.72	83.88	89.86	79.42
6	105.51	100.32	111.29	102.66	90.75	84.29	75.83	75.16	72.21	77.29	94.14	93.24
7	103.27	121.70	97.10	108.60	107.84	92.56	82.48	78.31	81.60	77.59	91.27	100.79
8	103.64	123.25	123.16	109.10	119.84	122.01	100.66	90.13	85.80	86.98	82.42	91.91
9	105.39	122.63	122.28	122.44	108.88	117.12	119.41	103.56	98.43	91.05	100.86	92.63
10	104.83	123.05	121.54	122.36	121.86	122.35	123.32	123.83	107.54	102.01	95.75	100.48
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 807.0 MHz; +10 dBm.
LO IN: 837.0 MHz; +17.00 dBm
IF OUT: 30.0 MHz; 1.71 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