

Frequency Mixer

JMS-1+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+1dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+4	+7	+10			+4	+7	+10			+4	+7	+10
0.5	30.5	7.81	7.45	7.25	10.1	40.1	20.53	22.15	21.19	10.1	40.1	1.05	0.73	0.55
1.0	31.0	7.02	6.68	6.52	50.8	80.8	18.60	20.22	19.60	50.8	80.8	0.94	0.73	0.54
2.0	32.0	6.45	6.15	6.00	91.4	121.4	15.39	16.73	20.57	91.4	121.4	0.93	0.67	0.46
5.0	35.0	6.12	5.84	5.69	132.1	162.1	14.65	17.24	21.57	132.1	162.1	0.92	0.65	0.48
10.0	40.0	6.09	5.78	5.64	172.7	202.7	15.14	20.38	21.90	172.7	202.7	0.82	0.60	0.47
50.8	80.8	6.10	5.70	5.51	213.4	243.4	15.58	19.16	23.23	213.4	243.4	0.87	0.61	0.44
132.1	162.1	6.00	5.72	5.57	254.0	284.0	16.60	21.97	24.24	254.0	284.0	0.86	0.61	0.46
172.7	202.7	6.04	5.76	5.61	274.4	304.4	16.26	19.62	26.17	274.4	304.4	0.83	0.61	0.48
213.4	243.4	6.00	5.76	5.60	315.0	345.0	16.61	20.63	23.81	315.0	345.0	0.89	0.61	0.45
254.0	284.0	6.08	5.81	5.65	335.3	365.3	22.63	22.12	21.24	335.3	365.3	0.90	0.64	0.49
274.4	304.4	6.11	5.83	5.67	376.0	406.0	16.04	17.02	20.87	376.0	406.0	0.82	0.60	0.47
315.0	345.0	6.10	5.83	5.69	396.3	426.3	16.75	17.80	21.87	396.3	426.3	0.80	0.60	0.45
376.0	406.0	6.12	5.85	5.68	437.0	467.0	18.87	19.96	21.68	437.0	467.0	0.78	0.57	0.46
396.3	426.3	6.12	5.84	5.68	457.3	487.3	17.50	18.82	19.05	457.3	487.3	0.78	0.57	0.44
437.0	467.0	6.19	5.92	5.73	498.0	528.0	13.46	15.75	16.21	498.0	528.0	0.84	0.59	0.44
457.3	487.3	6.25	5.98	5.77	518.3	548.3	15.52	15.55	16.22	518.3	548.3	0.88	0.64	0.48
498.0	528.0	6.21	5.93	5.76	559.0	589.0	18.31	20.00	19.04	559.0	589.0	0.93	0.63	0.47
518.3	548.3	6.25	5.96	5.79	579.3	609.3	24.25	22.27	21.04	579.3	609.3	0.93	0.64	0.46
559.0	589.0	6.29	6.00	5.83	619.9	649.9	14.40	15.27	22.49	619.9	649.9	0.99	0.67	0.48
579.3	609.3	6.35	6.05	5.88	640.3	670.3	12.87	14.65	19.80	640.3	670.3	0.97	0.70	0.51
619.9	649.9	6.47	6.20	6.01	680.9	710.9	9.74	12.16	17.80	680.9	710.9	1.03	0.75	0.57
640.3	670.3	6.58	6.29	6.09	701.2	731.2	8.82	11.07	14.20	701.2	731.2	1.06	0.79	0.60
680.9	710.9	6.69	6.43	6.23	741.9	771.9	7.72	9.95	12.73	741.9	771.9	1.14	0.87	0.69
741.9	771.9	6.93	6.64	6.44	762.2	792.2	8.17	10.83	13.63	762.2	792.2	1.20	0.91	0.72
762.2	792.2	6.94	6.65	6.45	802.9	832.9	8.32	11.41	15.31	802.9	832.9	1.26	0.96	0.79
802.9	832.9	7.08	6.75	6.53	823.2	853.2	9.19	13.64	18.25	823.2	853.2	1.26	1.01	0.83
823.2	853.2	7.11	6.76	6.55	863.9	893.9	10.13	15.48	25.70	863.9	893.9	1.36	1.10	0.92
863.9	893.9	7.24	6.84	6.61	884.2	914.2	10.54	16.86	20.08	884.2	914.2	1.41	1.13	0.94
884.2	914.2	7.27	6.88	6.63	924.9	954.9	12.02	16.76	19.35	924.9	954.9	1.37	1.13	0.93
924.9	954.9	7.52	7.06	6.79	945.2	975.2	11.44	18.79	19.93	945.2	975.2	1.39	1.12	0.94
945.2	975.2	7.62	7.14	6.86	985.8	1015.8	14.46	14.59	16.58	985.8	1015.8	1.30	1.05	0.89
985.8	1015.8	7.95	7.45	7.11	1006.2	1036.2	13.16	13.44	14.04	1006.2	1036.2	1.29	1.07	0.90
1006.2	1036.2	8.11	7.59	7.24	1046.8	1076.8	10.12	11.20	12.42	1046.8	1076.8	1.18	0.99	0.81
1046.8	1076.8	8.48	7.92	7.57	1067.1	1097.1	9.58	10.53	11.80	1067.1	1097.1	1.12	0.94	0.80
1067.1	1097.1	8.72	8.16	7.77	1107.8	1137.8	8.15	9.27	10.44	1107.8	1137.8	0.99	0.85	0.73
1128.1	1158.1	9.45	8.86	8.44	1128.1	1158.1	8.03	8.56	10.01	1128.1	1158.1	0.92	0.79	0.68
1168.8	1198.8	9.94	9.34	8.92	1168.8	1198.8	7.24	8.26	9.29	1168.8	1198.8	0.88	0.76	0.66
1189.1	1219.1	10.15	9.57	9.14	1189.1	1219.1	7.59	8.59	9.21	1189.1	1219.1	0.86	0.75	0.65
1229.8	1259.8	10.54	9.99	9.58	1229.8	1259.8	8.11	9.04	10.53	1229.8	1259.8	0.82	0.73	0.66
1250.1	1280.1	10.74	10.19	9.81	1250.1	1280.1	9.10	9.74	11.99	1250.1	1280.1	0.84	0.74	0.67

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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)=250.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=500.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
240.0	10.1	5.97	10.0	20.1	5.51	490.0	10.1	6.21
234.1	16.0	5.95	22.3	32.4	5.48	477.7	22.4	6.14
228.2	21.9	5.89	34.6	44.7	5.50	465.4	34.7	6.09
222.3	27.8	5.88	46.9	57.0	5.56	453.1	47.0	6.08
216.4	33.7	5.87	59.2	69.3	5.53	440.8	59.3	6.11
210.5	39.6	5.84	71.5	81.6	5.63	428.5	71.6	6.09
204.6	45.5	5.86	83.8	93.9	5.61	416.2	83.9	6.04
198.7	51.4	5.85	96.2	106.3	5.61	403.8	96.3	6.00
192.8	57.3	5.86	108.5	118.6	5.62	391.5	108.6	5.95
186.9	63.2	5.83	120.8	130.9	5.61	379.2	120.9	5.94
181.0	69.1	5.85	133.1	143.2	5.62	366.9	133.2	5.93
175.1	75.0	5.87	145.4	155.5	5.68	354.6	145.5	5.91
169.2	80.9	5.81	157.7	167.8	5.71	342.3	157.8	5.92
163.3	86.8	5.84	170.0	180.1	5.74	330.0	170.1	5.93
157.4	92.7	5.84	182.3	192.4	5.74	317.7	182.4	5.93
151.5	98.6	5.80	194.6	204.7	5.72	305.4	194.7	5.93
145.6	104.5	5.80	206.9	217.0	5.75	293.1	207.0	5.90
139.7	110.4	5.79	219.2	229.3	5.79	280.8	219.3	5.89
133.8	116.3	5.77	231.5	241.6	5.77	268.5	231.6	5.91
127.9	122.2	5.75	243.8	253.9	5.80	256.2	243.9	5.92
122.1	128.0	5.74	256.2	266.3	5.85	243.8	256.3	5.94
116.2	133.9	5.73	268.5	278.6	5.85	231.5	268.6	5.95
110.3	139.8	5.77	280.8	290.9	5.86	219.2	280.9	5.93
104.4	145.7	5.73	293.1	303.2	5.88	206.9	293.2	5.93
98.5	151.6	5.75	305.4	315.5	5.88	194.6	305.5	5.90
92.6	157.5	5.73	317.7	327.8	5.91	182.3	317.8	5.88
86.7	163.4	5.74	330.0	340.1	5.92	170.0	330.1	5.88
80.8	169.3	5.76	342.3	352.4	5.93	157.7	342.4	5.88
74.9	175.2	5.75	354.6	364.7	5.96	145.4	354.7	5.90
69.0	181.1	5.73	366.9	377.0	5.95	133.1	367.0	5.92
63.1	187.0	5.73	379.2	389.3	5.96	120.8	379.3	5.90
57.2	192.9	5.72	391.5	401.6	5.95	108.5	391.6	5.90
51.3	198.8	5.72	403.8	413.9	5.91	96.2	403.9	5.91
45.4	204.7	5.73	416.2	426.3	5.94	83.8	416.3	5.90
39.5	210.6	5.74	428.5	438.6	5.98	71.5	428.6	5.93
33.6	216.5	5.73	440.8	450.9	6.01	59.2	440.9	5.94
27.7	222.4	5.73	453.1	463.2	6.01	46.9	453.2	5.92
21.8	228.3	5.74	465.4	475.5	6.02	34.6	465.5	5.95
15.9	234.2	5.71	477.7	487.8	6.01	22.3	477.8	5.93
10.0	240.1	5.81	490.0	500.1	6.02	10.0	490.1	5.96

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LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10
0.5	77.47	89.00	86.40	58.57	64.40	71.90
1.0	76.77	82.65	81.16	59.07	64.35	70.66
2.0	74.40	76.59	75.41	58.90	63.49	66.01
5.0	68.98	68.78	67.98	57.58	59.68	59.61
10.0	63.87	63.45	62.82	55.47	55.38	54.46
50.8	59.00	59.82	60.61	52.56	51.08	50.21
132.1	49.81	50.75	51.33	47.86	46.48	44.78
172.7	47.13	47.89	48.53	47.46	45.40	43.33
213.4	45.21	46.03	46.52	46.24	43.93	42.05
254.0	43.37	44.09	44.57	44.75	42.70	40.70
274.4	42.66	43.25	43.76	44.24	42.05	40.29
315.0	41.34	42.15	42.68	42.01	40.51	39.08
376.0	39.26	39.64	40.11	39.51	38.77	37.63
396.3	38.81	39.24	39.75	38.57	38.40	37.55
437.0	38.32	38.69	39.22	35.96	36.45	36.18
457.3	38.11	38.62	39.00	35.19	35.69	35.72
498.0	37.40	37.98	38.32	33.58	33.96	34.17
518.3	36.95	37.57	37.79	33.39	33.61	33.63
559.0	35.99	36.62	36.92	32.62	32.75	32.77
579.3	35.25	35.87	36.30	32.60	32.97	32.84
619.9	34.15	34.71	35.17	31.79	32.94	32.66
640.3	33.40	34.07	34.63	31.22	33.10	33.19
680.9	32.52	33.24	33.91	29.98	32.44	33.70
741.9	31.70	32.55	33.27	28.19	30.59	32.76
762.2	31.60	32.46	33.24	27.72	30.03	32.20
802.9	31.57	32.57	33.36	26.71	28.79	30.81
823.2	31.76	32.77	33.58	26.19	28.03	29.88
863.9	31.89	32.86	33.61	25.30	26.74	28.40
884.2	31.86	32.67	33.19	24.92	26.19	27.69
924.9	31.41	32.01	32.33	24.42	25.42	26.70
945.2	31.05	31.42	31.69	24.43	25.33	26.51
985.8	30.18	30.36	30.46	24.69	25.41	26.51
1006.2	29.95	29.97	30.18	24.84	25.54	26.58
1046.8	29.56	29.37	29.48	24.99	25.96	27.05
1067.1	29.29	29.00	28.98	25.10	26.20	27.36
1128.1	29.01	28.59	28.31	24.54	26.23	27.77
1168.8	28.71	28.22	27.99	24.13	26.12	28.11
1189.1	28.47	28.02	27.75	23.82	25.81	27.93
1229.8	28.02	27.64	27.42	23.30	25.39	27.76
1250.1	27.60	27.32	27.10	23.08	25.20	27.68

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	54.11	44.61	45.41
50.8	80.8	35.59	36.10	35.85
91.4	121.4	31.21	31.33	31.61
132.1	162.1	28.67	28.81	29.26
172.7	202.7	27.07	27.30	27.53
213.4	243.4	26.21	26.60	26.87
254.0	284.0	25.98	26.06	26.35
274.4	304.4	25.80	26.17	26.21
315.0	345.0	26.00	26.44	26.97
335.3	365.3	25.95	26.63	27.37
376.0	406.0	26.25	26.79	27.34
396.3	426.3	26.54	27.03	27.40
437.0	467.0	26.83	27.09	27.30
457.3	487.3	26.81	27.13	27.38
498.0	528.0	25.12	25.82	26.38
518.3	548.3	23.65	24.33	24.87
559.0	589.0	20.73	21.16	21.61
579.3	609.3	19.47	19.68	20.00
619.9	649.9	17.50	17.52	17.62
640.3	670.3	16.77	16.67	16.68
680.9	710.9	15.65	15.47	15.46
701.2	731.2	15.24	15.06	15.00
741.9	771.9	14.52	14.28	14.15
762.2	792.2	14.16	14.02	13.89
802.9	832.9	13.61	13.44	13.37
823.2	853.2	13.40	13.26	13.20
863.9	893.9	13.02	13.02	13.01
884.2	914.2	12.91	12.91	12.95
924.9	954.9	12.65	12.66	12.82
945.2	975.2	12.55	12.60	12.71
985.8	1015.8	12.40	12.47	12.59
1006.2	1036.2	12.32	12.38	12.59
1046.8	1076.8	12.09	12.25	12.38
1067.1	1097.1	12.00	12.19	12.28
1107.8	1137.8	11.59	11.82	12.01
1128.1	1158.1	11.43	11.63	11.79
1168.8	1198.8	10.97	11.21	11.41
1189.1	1219.1	10.73	10.98	11.11
1229.8	1259.8	10.32	10.46	10.62
1250.1	1280.1	10.13	10.25	10.31



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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+4	+7	+10
0.5	30.5	1.13	1.11	1.12
1.0	31.0	1.10	1.05	1.07
2.0	32.0	1.09	1.02	1.05
5.0	35.0	1.09	1.01	1.05
10.0	40.0	1.09	1.01	1.05
50.8	80.8	1.03	1.04	1.09
132.1	162.1	1.02	1.07	1.13
172.7	202.7	1.02	1.09	1.15
213.4	243.4	1.04	1.11	1.18
254.0	284.0	1.06	1.13	1.19
274.4	304.4	1.06	1.14	1.20
315.0	345.0	1.11	1.19	1.25
335.3	365.3	1.12	1.20	1.27
376.0	406.0	1.15	1.24	1.30
396.3	426.3	1.17	1.25	1.31
437.0	467.0	1.22	1.28	1.34
457.3	487.3	1.24	1.31	1.37
498.0	528.0	1.33	1.41	1.48
518.3	548.3	1.35	1.44	1.51
559.0	589.0	1.43	1.53	1.61
579.3	609.3	1.46	1.56	1.64
619.9	649.9	1.51	1.61	1.70
640.3	670.3	1.52	1.62	1.70
680.9	710.9	1.54	1.64	1.72
741.9	771.9	1.55	1.62	1.69
762.2	792.2	1.57	1.63	1.70
802.9	832.9	1.60	1.66	1.71
823.2	853.2	1.64	1.69	1.74
863.9	893.9	1.72	1.77	1.82
884.2	914.2	1.80	1.84	1.89
924.9	954.9	1.98	2.01	2.05
945.2	975.2	2.10	2.13	2.16
985.8	1015.8	2.39	2.40	2.42
1006.2	1036.2	2.54	2.54	2.55
1046.8	1076.8	2.88	2.87	2.87
1067.1	1097.1	3.06	3.04	3.02
1128.1	1158.1	3.56	3.51	3.45
1168.8	1198.8	3.76	3.70	3.64
1189.1	1219.1	3.82	3.76	3.69
1229.8	1259.8	3.94	3.86	3.78
1250.1	1280.1	3.95	3.89	3.79

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+4	+7	+10
0.5	1.58	2.27	3.21
1.0	1.57	2.27	3.08
2.0	1.68	2.43	3.34
5.0	1.75	2.52	3.51
10.0	1.77	2.50	3.52
50.8	1.87	2.75	3.88
132.1	1.85	2.68	3.76
172.7	1.77	2.52	3.48
213.4	1.83	2.61	3.60
254.0	1.84	2.60	3.58
274.4	1.82	2.55	3.48
315.0	1.87	2.64	3.60
335.3	1.90	2.67	3.65
376.0	1.87	2.59	3.50
396.3	1.90	2.62	3.54
437.0	1.96	2.70	3.63
457.3	1.95	2.66	3.57
498.0	1.97	2.68	3.58
518.3	2.00	2.72	3.62
559.0	2.03	2.71	3.58
579.3	2.05	2.73	3.59
619.9	2.12	2.82	3.69
640.3	2.14	2.82	3.68
680.9	2.15	2.83	3.68
741.9	2.20	2.86	3.70
762.2	2.20	2.85	3.67
802.9	2.22	2.87	3.70
823.2	2.22	2.87	3.69
863.9	2.22	2.85	3.66
884.2	2.26	2.88	3.69
924.9	2.30	2.90	3.70
945.2	2.33	2.92	3.70
985.8	2.40	2.97	3.74
1006.2	2.44	3.00	3.76
1046.8	2.49	3.02	3.76
1067.1	2.54	3.06	3.79
1128.1	2.64	3.11	3.79
1168.8	2.71	3.15	3.83
1189.1	2.73	3.16	3.82
1229.8	2.78	3.16	3.79
1250.1	2.81	3.17	3.81

IF (OUT) (MHz)	IF VSWR @LO=500.1MHz (:1)		
	@LO (dBm)		
	+4	+7	+10
5.0	1.41	1.24	1.12
10.0	1.41	1.25	1.13
22.6	1.58	1.36	1.28
35.1	1.54	1.38	1.28
47.7	1.63	1.45	1.28
60.3	1.65	1.46	1.30
72.8	1.67	1.46	1.31
85.4	1.63	1.45	1.30
97.9	1.59	1.42	1.29
110.5	1.58	1.40	1.28
123.1	1.59	1.42	1.30
135.6	1.64	1.45	1.31
148.2	1.63	1.46	1.31
160.8	1.64	1.46	1.31
173.3	1.62	1.45	1.31
185.9	1.60	1.42	1.30
198.5	1.60	1.43	1.31
211.0	1.59	1.43	1.32
223.6	1.61	1.44	1.33
236.2	1.62	1.46	1.34
248.7	1.66	1.48	1.36
261.3	1.67	1.49	1.37
273.8	1.66	1.49	1.37
286.4	1.63	1.47	1.36
299.0	1.61	1.44	1.34
311.5	1.59	1.44	1.34
324.1	1.61	1.45	1.35
336.7	1.64	1.48	1.38
349.2	1.67	1.51	1.40
361.8	1.67	1.53	1.41
374.4	1.68	1.52	1.41
386.9	1.68	1.52	1.42
399.5	1.68	1.52	1.42
412.1	1.70	1.54	1.44
424.6	1.69	1.54	1.45
437.2	1.69	1.54	1.45
449.7	1.71	1.56	1.46
462.3	1.73	1.59	1.50
474.9	1.78	1.64	1.53
487.4	1.81	1.66	1.57
500.0	1.86	1.86	1.87

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Frequency Mixer

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	14	24	14	31	15	30	19	45	29	39
1	-	21	+0	30	12	33	18	32	23	49	41	48
2	>100	72	52	67	52	69	52	66	49	60	51	71
3	>100	70	77	75	72	>80	64	76	67	>80	67	>80
4	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
5	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
6	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
7	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
8	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
9	>100	>80	>80	>80	>80	>80	>80	>80	>80	66	>80	>80
10	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	70	>80
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 250.1 MHz; -14.00 dBm.
 LO IN: 280.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -19.92 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	23	34	26	44	27	45	32	63	45	55
1	-	21	+0	31	12	34	19	34	26	51	43	57
2	93	62	45	68	45	60	45	58	44	56	47	68
3	>100	49	51	55	48	56	48	53	45	56	46	63
4	>100	72	72	72	67	72	65	74	60	74	58	71
5	>100	67	70	71	60	76	57	73	56	83	58	70
6	>100	87	80	83	86	83	85	87	82	86	81	>90
7	>100	>90	80	>90	83	>90	>90	>90	88	84	72	81
8	>100	>90	>90	>90	>90	>90	>90	>90	>90	>90	>90	>90
9	>100	>90	>90	>90	84	89	83	>90	83	84	87	>90
10	>100	>90	>90	>90	>90	>90	>90	>90	>90	>90	76	>90
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 250.1 MHz; -4.00 dBm.
 LO IN: 280.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -9.93 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.

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