

Frequency Mixer

JMS-2H+

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=+14dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+14	+17	+20			+14	+17	+20			+14	+17	+20
20.1	50.1	8.11	7.09	6.64	20.1	50.1	21.92	26.25	30.17	20.1	50.1	0.25	0.07	0.07
60.1	90.1	8.23	7.26	6.79	60.1	90.1	21.73	24.92	27.16	60.1	90.1	0.31	0.04	0.03
100.1	130.1	8.12	7.14	6.71	100.1	130.1	22.95	26.98	27.14	100.1	130.1	0.23	0.05	0.04
140.1	170.1	8.25	7.24	6.75	140.1	170.1	21.90	25.44	27.04	140.1	170.1	0.21	0.05	0.07
180.1	210.1	8.16	7.11	6.72	180.1	210.1	23.06	25.61	28.15	180.1	210.1	0.18	0.06	0.05
220.1	250.1	8.16	7.07	6.69	220.1	250.1	21.68	24.60	31.09	220.1	250.1	0.17	0.13	0.09
260.1	290.1	8.01	7.03	6.70	260.1	290.1	22.25	25.58	28.36	260.1	290.1	0.29	0.15	0.07
300.1	330.1	7.83	6.92	6.66	300.1	330.1	23.26	29.67	28.17	300.1	330.1	0.41	0.20	0.08
340.1	370.1	7.91	7.00	6.72	340.1	370.1	21.66	26.95	26.97	340.1	370.1	0.38	0.16	0.08
380.1	410.1	7.69	6.94	6.72	380.1	410.1	23.89	27.24	27.24	380.1	410.1	0.54	0.15	0.06
420.1	450.1	7.64	6.96	6.72	420.1	450.1	23.41	25.94	27.04	420.1	450.1	0.58	0.19	0.08
460.1	490.1	7.63	7.00	6.75	460.1	490.1	24.83	25.07	26.47	460.1	490.1	0.59	0.14	0.07
500.1	530.1	7.52	6.96	6.72	500.1	530.1	29.29	25.17	25.40	500.1	530.1	0.71	0.20	0.10
540.1	570.1	7.67	7.10	6.83	540.1	570.1	25.06	25.09	25.01	540.1	570.1	0.59	0.15	0.07
580.1	610.1	7.68	7.13	6.84	580.1	610.1	24.48	25.34	26.93	580.1	610.1	0.61	0.14	0.08
620.1	650.1	7.75	7.20	6.88	620.1	650.1	23.47	25.12	28.67	620.1	650.1	0.68	0.17	0.14
660.1	690.1	7.81	7.30	6.95	660.1	690.1	23.34	23.41	26.07	660.1	690.1	0.67	0.14	0.14
700.1	730.1	7.78	7.33	6.99	700.1	730.1	23.99	23.19	24.31	700.1	730.1	0.72	0.20	0.16
740.1	770.1	7.89	7.46	7.15	740.1	770.1	24.39	23.80	24.11	740.1	770.1	0.72	0.19	0.13
780.1	810.1	7.91	7.46	7.16	780.1	810.1	23.33	24.40	25.38	780.1	810.1	0.77	0.28	0.19
820.1	850.1	8.03	7.54	7.21	820.1	850.1	21.89	24.11	25.83	820.1	850.1	0.85	0.36	0.26
860.1	890.1	8.10	7.54	7.16	860.1	890.1	20.68	24.71	25.57	860.1	890.1	0.85	0.47	0.35
900.1	930.1	8.22	7.53	7.16	900.1	930.1	18.80	24.70	27.30	900.1	930.1	0.94	0.60	0.42
920.1	950.1	8.32	7.60	7.20	920.1	950.1	18.41	24.62	28.14	920.1	950.1	0.81	0.59	0.45
960.1	990.1	8.50	7.66	7.25	960.1	990.1	16.57	23.60	29.52	960.1	990.1	0.78	0.68	0.53
980.1	1010.1	8.63	7.75	7.29	980.1	1010.1	15.88	20.91	27.86	980.1	1010.1	0.80	0.68	0.54
1020.1	1050.1	8.85	7.93	7.40	1020.1	1050.1	15.36	18.79	25.07	1020.1	1050.1	0.79	0.69	0.59
1040.1	1070.1	8.95	8.07	7.44	1040.1	1070.1	15.12	16.93	23.23	1040.1	1070.1	0.72	0.65	0.63
1080.1	1110.1	9.19	8.31	7.60	1080.1	1110.1	15.39	16.63	21.55	1080.1	1110.1	0.67	0.60	0.64
1100.1	1130.1	9.27	8.47	7.73	1100.1	1130.1	15.36	16.19	19.70	1100.1	1130.1	0.59	0.53	0.60
1140.1	1170.1	9.48	8.68	7.93	1140.1	1170.1	15.55	16.49	18.99	1140.1	1170.1	0.53	0.45	0.56
1160.1	1190.1	9.60	8.82	8.03	1160.1	1190.1	15.55	16.21	18.56	1160.1	1190.1	0.50	0.42	0.54
1200.1	1230.1	9.80	9.06	8.25	1200.1	1230.1	16.05	16.61	18.77	1200.1	1230.1	0.39	0.29	0.45
1220.1	1250.1	9.94	9.17	8.35	1220.1	1250.1	16.05	16.78	18.94	1220.1	1250.1	0.34	0.25	0.41
1260.1	1290.1	10.15	9.35	8.56	1260.1	1290.1	16.63	17.69	19.24	1260.1	1290.1	0.23	0.18	0.33
1280.1	1310.1	10.36	9.50	8.70	1280.1	1310.1	16.84	18.42	20.00	1280.1	1310.1	0.10	0.11	0.26
1320.1	1350.1	10.57	9.61	8.74	1320.1	1350.1	16.91	18.68	21.27	1320.1	1350.1	0.03	0.11	0.30
1340.1	1370.1	10.74	9.69	8.77	1340.1	1370.1	17.04	18.82	21.46	1340.1	1370.1	-0.08	0.06	0.29
1380.1	1410.1	11.03	9.86	8.81	1380.1	1410.1	16.61	18.18	21.28	1380.1	1410.1	-0.12	0.11	0.44
1400.1	1430.1	11.08	9.82	8.70	1400.1	1430.1	16.66	18.33	22.53	1400.1	1430.1	-0.10	0.19	0.55

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IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant
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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)=500.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=20.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1000.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
460.0	40.1	7.05	10.0	30.1	7.15	980.0	20.1	7.91
448.5	51.6	7.09	29.8	49.9	7.07	960.2	39.9	7.79
436.9	63.2	7.21	49.6	69.7	7.10	940.4	59.7	7.85
425.4	74.7	7.15	69.4	89.5	7.22	920.6	79.5	7.79
413.8	86.3	7.12	89.2	109.3	7.18	900.8	99.3	7.65
402.3	97.8	7.09	109.0	129.1	7.12	881.0	119.1	7.51
390.8	109.3	7.03	128.8	148.9	7.14	861.2	138.9	7.51
379.2	120.9	7.04	148.6	168.7	7.34	841.4	158.7	7.45
367.7	132.4	6.88	168.4	188.5	7.31	821.6	178.5	7.37
356.2	143.9	6.83	188.2	208.3	7.24	801.8	198.3	7.30
344.6	155.5	6.92	208.0	228.1	7.25	782.0	218.1	7.20
333.1	167.0	6.95	227.8	247.9	7.35	762.2	237.9	7.16
321.5	178.6	6.82	247.6	267.7	7.40	742.4	257.7	7.13
310.0	190.1	6.78	267.3	287.4	7.38	722.7	277.4	7.16
298.5	201.6	6.82	287.1	307.2	7.50	702.9	297.2	7.04
286.9	213.2	6.72	306.9	327.0	7.38	683.1	317.0	7.01
275.4	224.7	6.62	326.7	346.8	7.37	663.3	336.8	7.02
263.8	236.3	6.65	346.5	366.6	7.46	643.5	356.6	7.04
252.3	247.8	6.63	366.3	386.4	7.58	623.7	376.4	7.07
240.8	259.3	6.66	386.1	406.2	7.47	603.9	396.2	7.03
229.2	270.9	6.65	425.7	445.8	7.57	564.3	435.8	7.09
217.7	282.4	6.61	445.5	465.6	7.59	544.5	455.6	7.14
206.2	293.9	6.65	485.1	505.2	7.53	504.9	495.2	7.13
194.6	305.5	6.65	504.9	525.0	7.56	485.1	515.0	7.19
183.1	317.0	6.59	544.5	564.6	7.57	445.5	554.6	7.29
171.5	328.6	6.63	564.3	584.4	7.64	425.7	574.4	7.27
160.0	340.1	6.70	603.9	624.0	7.54	386.1	614.0	7.31
148.5	351.6	6.66	623.7	643.8	7.67	366.3	633.8	7.32
136.9	363.2	6.69	663.3	683.4	7.74	326.7	673.4	7.36
125.4	374.7	6.76	683.1	703.2	7.69	306.9	693.2	7.39
113.8	386.3	6.74	722.7	742.8	7.84	267.3	732.8	7.46
102.3	397.8	6.74	742.4	762.5	7.81	247.6	752.5	7.51
90.8	409.3	6.76	782.0	802.1	7.74	208.0	792.1	7.56
79.2	420.9	6.74	801.8	821.9	7.73	188.2	811.9	7.57
67.7	432.4	6.82	841.4	861.5	7.70	148.6	851.5	7.70
56.2	443.9	6.86	861.2	881.3	7.60	128.8	871.3	7.68
44.6	455.5	6.83	900.8	920.9	7.52	89.2	910.9	7.66
33.1	467.0	6.89	920.6	940.7	7.45	69.4	930.7	7.64
21.5	478.6	6.95	960.2	980.3	7.41	29.8	970.3	7.75
10.0	490.1	7.00	980.0	1000.1	7.37	10.0	990.1	7.64

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
20.1	66.92	67.13	67.30	66.94	63.20	63.52
60.1	57.91	58.61	59.40	56.86	55.91	55.21
100.1	53.77	55.06	55.73	52.30	51.66	51.45
140.1	51.22	52.42	53.52	49.38	49.06	48.70
180.1	49.50	50.91	52.78	47.83	47.75	47.48
220.1	47.88	50.16	52.35	46.49	46.50	46.59
260.1	47.13	49.75	51.63	45.51	45.78	45.56
300.1	46.82	49.86	51.15	44.86	45.15	44.70
340.1	46.29	49.10	50.21	44.19	44.48	43.82
380.1	46.71	48.95	49.68	43.70	43.59	43.11
420.1	46.33	48.33	48.79	43.03	42.87	42.33
460.1	45.95	47.29	47.89	42.68	42.32	42.38
500.1	45.56	46.33	46.78	42.24	41.30	41.53
540.1	44.84	45.48	45.85	42.43	41.65	40.59
580.1	44.05	44.71	45.27	41.94	42.03	41.17
620.1	43.07	43.72	44.39	41.63	41.74	42.21
660.1	42.10	42.75	43.52	42.24	40.92	42.07
700.1	40.78	41.61	42.54	42.54	40.39	40.30
740.1	39.72	40.64	41.69	42.06	40.71	39.53
780.1	38.50	39.53	40.72	40.84	40.58	39.23
820.1	37.55	38.69	39.95	39.59	40.35	39.05
860.1	36.90	38.02	39.33	38.27	40.97	41.28
900.1	36.12	37.28	38.54	36.79	40.00	41.67
920.1	35.98	37.03	38.24	35.85	39.18	41.36
960.1	35.44	36.57	37.79	34.98	37.13	39.31
980.1	35.34	36.52	37.68	34.69	36.37	38.77
1020.1	34.91	36.34	37.35	34.65	35.04	37.37
1040.1	34.67	36.14	37.17	34.99	34.82	36.99
1080.1	34.36	35.96	36.94	35.11	34.31	36.27
1100.1	33.93	35.56	36.60	35.69	34.88	36.24
1140.1	33.41	35.12	36.14	35.20	34.45	35.52
1160.1	33.05	34.79	35.97	36.28	35.49	35.85
1200.1	32.34	34.06	35.22	35.80	35.31	35.34
1220.1	31.96	33.68	34.84	36.76	36.23	35.48
1260.1	31.26	32.92	34.10	36.98	36.92	36.08
1280.1	30.82	32.39	33.44	38.19	38.01	36.44
1320.1	29.91	31.34	32.24	38.78	41.54	40.31
1340.1	29.47	30.89	31.80	39.28	44.55	42.72
1380.1	28.62	29.76	30.57	37.19	43.33	56.15
1400.1	28.17	29.29	30.08	36.23	40.59	46.14

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
20.1	50.1	44.99	44.88	43.59
60.1	90.1	36.49	36.47	36.00
100.1	130.1	32.59	32.03	31.71
140.1	170.1	29.92	29.56	29.35
180.1	210.1	28.12	27.78	27.55
220.1	250.1	26.86	26.53	26.32
260.1	290.1	25.94	25.62	25.47
300.1	330.1	25.23	24.95	24.90
340.1	370.1	24.71	24.58	24.48
380.1	410.1	24.17	24.27	24.18
420.1	450.1	23.63	23.75	23.82
460.1	490.1	23.26	23.31	23.40
500.1	530.1	22.79	22.79	22.83
540.1	570.1	22.57	22.43	22.42
580.1	610.1	22.18	22.00	21.92
620.1	650.1	21.39	21.31	21.37
660.1	690.1	20.30	20.28	20.46
700.1	730.1	19.18	19.25	19.49
740.1	770.1	18.13	18.19	18.44
780.1	810.1	17.23	17.27	17.51
820.1	850.1	16.38	16.36	16.57
860.1	890.1	15.68	15.57	15.72
900.1	930.1	15.13	15.00	15.08
920.1	950.1	14.99	14.84	14.92
960.1	990.1	14.57	14.42	14.41
980.1	1010.1	14.32	14.21	14.18
1020.1	1050.1	13.92	13.91	13.94
1040.1	1070.1	13.67	13.75	13.74
1080.1	1110.1	13.42	13.56	13.65
1100.1	1130.1	13.28	13.46	13.68
1140.1	1170.1	12.94	13.19	13.46
1160.1	1190.1	12.77	12.98	13.27
1200.1	1230.1	12.45	12.68	13.02
1220.1	1250.1	12.30	12.52	12.84
1260.1	1290.1	11.98	12.22	12.49
1280.1	1310.1	11.85	12.09	12.34
1320.1	1350.1	11.56	11.87	12.10
1340.1	1370.1	11.38	11.72	12.00
1380.1	1410.1	11.16	11.56	11.93
1400.1	1430.1	11.07	11.57	12.00

Frequency Mixer

JMS-2H+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+14	+17	+20
20.1	50.1	1.08	1.17	1.27
60.1	90.1	1.03	1.14	1.24
100.1	130.1	1.04	1.16	1.26
140.1	170.1	1.04	1.14	1.25
180.1	210.1	1.05	1.16	1.27
220.1	250.1	1.05	1.16	1.28
260.1	290.1	1.06	1.18	1.30
300.1	330.1	1.06	1.21	1.33
340.1	370.1	1.04	1.20	1.31
380.1	410.1	1.07	1.24	1.34
420.1	450.1	1.08	1.24	1.35
460.1	490.1	1.10	1.26	1.37
500.1	530.1	1.13	1.29	1.39
540.1	570.1	1.13	1.29	1.38
580.1	610.1	1.17	1.32	1.41
620.1	650.1	1.19	1.34	1.44
660.1	690.1	1.22	1.35	1.46
700.1	730.1	1.25	1.38	1.48
740.1	770.1	1.27	1.39	1.48
780.1	810.1	1.28	1.41	1.50
820.1	850.1	1.28	1.42	1.51
860.1	890.1	1.28	1.44	1.54
900.1	930.1	1.29	1.46	1.55
920.1	950.1	1.28	1.44	1.54
960.1	990.1	1.27	1.44	1.53
980.1	1010.1	1.28	1.41	1.52
1020.1	1050.1	1.28	1.39	1.49
1040.1	1070.1	1.30	1.37	1.49
1080.1	1110.1	1.33	1.38	1.48
1100.1	1130.1	1.35	1.38	1.47
1140.1	1170.1	1.40	1.42	1.48
1160.1	1190.1	1.43	1.44	1.50
1200.1	1230.1	1.51	1.51	1.54
1220.1	1250.1	1.56	1.55	1.58
1260.1	1290.1	1.66	1.64	1.66
1280.1	1310.1	1.73	1.70	1.72
1320.1	1350.1	1.85	1.83	1.83
1340.1	1370.1	1.93	1.90	1.91
1380.1	1410.1	2.09	2.05	2.05
1400.1	1430.1	2.18	2.14	2.14

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+14	+17	+20
20.1	1.15	1.72	2.60
60.1	1.08	1.68	2.54
100.1	1.08	1.62	2.41
140.1	1.10	1.70	2.57
180.1	1.10	1.62	2.39
220.1	1.14	1.68	2.51
260.1	1.12	1.65	2.45
300.1	1.14	1.65	2.45
340.1	1.15	1.70	2.52
380.1	1.14	1.66	2.44
420.1	1.16	1.72	2.55
460.1	1.13	1.70	2.50
500.1	1.14	1.72	2.53
540.1	1.15	1.75	2.56
580.1	1.15	1.75	2.55
620.1	1.17	1.79	2.61
660.1	1.18	1.79	2.58
700.1	1.19	1.83	2.64
740.1	1.22	1.85	2.65
780.1	1.24	1.87	2.67
820.1	1.26	1.90	2.70
860.1	1.29	1.91	2.69
900.1	1.33	1.94	2.72
920.1	1.34	1.95	2.73
960.1	1.38	1.97	2.75
980.1	1.40	2.00	2.78
1020.1	1.43	2.04	2.81
1040.1	1.45	2.07	2.84
1080.1	1.48	2.09	2.86
1100.1	1.50	2.12	2.89
1140.1	1.52	2.14	2.90
1160.1	1.55	2.17	2.94
1200.1	1.57	2.17	2.92
1220.1	1.59	2.18	2.93
1260.1	1.62	2.21	2.96
1280.1	1.64	2.21	2.95
1320.1	1.65	2.20	2.91
1340.1	1.67	2.21	2.93
1380.1	1.70	2.21	2.91
1400.1	1.69	2.18	2.87

IF (OUT) (MHz)	IF VSWR @LO=1000.1MHz (:1)		
	@LO (dBm)		
	+14	+17	+20
10.1	3.19	2.24	1.86
30.1	3.20	2.33	1.87
50.1	3.19	2.28	1.81
70.1	3.36	2.40	1.89
90.1	3.25	2.34	1.87
110.1	3.17	2.30	1.83
130.1	3.31	2.40	1.91
150.1	3.29	2.36	1.88
170.1	3.16	2.28	1.82
190.1	3.17	2.30	1.85
210.1	3.21	2.33	1.89
230.1	3.04	2.22	1.81
250.1	3.06	2.22	1.81
270.1	3.12	2.28	1.85
290.1	3.07	2.26	1.85
310.1	2.96	2.19	1.81
330.1	3.03	2.23	1.84
350.1	3.05	2.25	1.87
370.1	2.94	2.20	1.83
390.1	2.91	2.17	1.81
430.1	2.87	2.17	1.84
450.1	2.77	2.09	1.78
490.1	2.80	2.13	1.82
510.1	2.76	2.09	1.80
550.1	2.72	2.07	1.79
570.1	2.70	2.07	1.80
610.1	2.66	2.02	1.75
630.1	2.62	2.01	1.76
670.1	2.55	1.94	1.71
690.1	2.60	1.98	1.74
730.1	2.51	1.88	1.67
750.1	2.51	1.89	1.67
790.1	2.46	1.85	1.64
810.1	2.44	1.81	1.60
850.1	2.38	1.77	1.58
870.1	2.35	1.74	1.54
910.1	2.39	1.75	1.54
930.1	2.34	1.70	1.50
970.1	2.32	1.69	1.48
990.1	2.32	1.70	1.50

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	16	20	24	26	27	44	25	51	31	55
1	-	16	+0	31	14	37	25	38	31	44	32	58
2	96	60	61	63	57	73	56	59	53	63	56	85
3	>100	65	60	69	59	69	52	71	51	71	57	76
4	>100	79	>92	82	91	78	82	84	79	78	84	89
5	>100	>92	80	>92	81	>92	78	87	80	86	79	91
6	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
7	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
8	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
9	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
10	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 500.1 MHz; -1.00 dBm.
 LO IN: 530.01 MHz; +17.00 dBm
 IF OUT: 29.91 MHz; -8.27 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	26	30	35	36	41	58	46	63	42	68
1	-	16	+0	31	14	41	23	40	38	51	40	60
2	78	52	55	58	53	54	53	59	52	64	48	73
3	>100	48	40	53	44	49	37	57	43	65	45	61
4	>100	73	67	84	69	70	64	68	62	64	64	69
5	>100	64	59	62	54	63	53	60	49	62	49	65
6	>100	82	80	93	76	86	84	79	71	80	69	73
7	>100	>102	78	82	74	74	69	73	64	68	62	68
8	>100	>102	89	88	92	81	87	82	84	79	79	80
9	>100	98	94	94	82	82	76	77	74	77	76	74
10	>100	>102	98	>102	98	97	90	89	87	89	86	90
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 500.1 MHz; 9.00 dBm.
 LO IN: 530.01 MHz; +17.00 dBm
 IF OUT: 29.91 MHz; 1.8 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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