

Frequency Mixer

JMS-2W+

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
5.0	35.0	6.93	6.50	6.19	10.1	40.1	15.17	18.17	20.76	10.1	40.1	0.71	0.35	0.36
10.0	40.0	6.86	6.43	6.14	50.4	80.4	15.81	17.83	18.48	50.4	80.4	0.66	0.51	0.30
50.4	80.4	7.27	6.76	6.53	90.6	120.6	15.10	18.11	17.54	90.6	120.6	0.73	0.53	0.27
90.6	120.6	7.22	6.77	6.50	130.9	160.9	14.50	15.99	20.67	130.9	160.9	0.74	0.56	0.44
130.9	160.9	7.26	6.77	6.54	171.1	201.1	14.62	16.52	22.95	171.1	201.1	0.68	0.49	0.35
171.1	201.1	7.18	6.71	6.50	211.4	241.4	14.47	18.03	19.89	211.4	241.4	0.71	0.53	0.36
211.4	241.4	7.11	6.67	6.51	251.6	281.6	15.51	19.89	17.16	251.6	281.6	0.73	0.57	0.42
251.6	281.6	7.05	6.64	6.44	291.9	321.9	16.15	16.84	16.99	291.9	321.9	0.76	0.63	0.41
291.9	321.9	7.04	6.67	6.45	332.1	362.1	17.31	16.04	16.22	332.1	362.1	0.85	0.58	0.38
332.1	362.1	7.01	6.63	6.48	372.4	402.4	16.45	15.73	15.93	372.4	402.4	0.85	0.58	0.33
372.4	402.4	6.99	6.62	6.48	412.6	442.6	17.88	17.16	17.11	412.6	442.6	0.76	0.54	0.46
412.6	442.6	6.92	6.58	6.44	452.9	482.9	16.07	14.80	14.79	452.9	482.9	0.78	0.53	0.35
452.9	482.9	6.96	6.61	6.42	493.1	523.1	16.21	15.66	15.72	493.1	523.1	0.92	0.70	0.44
493.1	523.1	6.92	6.59	6.44	533.4	563.4	14.90	15.02	15.53	533.4	563.4	0.77	0.55	0.35
533.4	563.4	6.94	6.58	6.40	573.6	603.6	14.27	14.21	15.28	573.6	603.6	0.84	0.62	0.39
573.6	603.6	6.90	6.55	6.38	613.9	643.9	13.06	14.53	14.19	613.9	643.9	0.85	0.55	0.41
654.2	684.2	6.97	6.62	6.46	654.2	684.2	14.09	14.29	13.99	654.2	684.2	0.92	0.67	0.47
694.4	724.4	6.96	6.64	6.48	694.4	724.4	13.85	13.49	14.34	694.4	724.4	0.89	0.70	0.49
734.7	764.7	7.03	6.69	6.50	734.7	764.7	13.89	13.41	14.68	734.7	764.7	0.95	0.65	0.51
774.9	804.9	7.11	6.78	6.62	774.9	804.9	14.79	15.13	14.82	774.9	804.9	0.99	0.71	0.44
815.2	845.2	7.20	6.87	6.68	815.2	845.2	17.77	17.82	15.30	815.2	845.2	1.07	0.85	0.59
855.4	885.4	7.34	6.99	6.79	855.4	885.4	19.64	18.25	17.45	855.4	885.4	1.10	0.91	0.61
895.7	925.7	7.37	7.03	6.81	895.7	925.7	17.10	17.08	16.48	895.7	925.7	1.06	0.75	0.52
935.9	965.9	7.50	7.15	6.95	935.9	965.9	17.02	15.14	16.03	935.9	965.9	1.18	0.83	0.72
976.2	1006.2	7.58	7.26	7.01	976.2	1006.2	16.89	14.57	14.85	976.2	1006.2	1.18	0.97	0.73
1016.4	1046.4	7.66	7.29	7.06	1016.4	1046.4	15.01	14.35	14.61	1016.4	1046.4	1.29	0.89	0.76
1056.7	1086.7	7.74	7.38	7.12	1056.7	1086.7	13.52	13.28	13.94	1056.7	1086.7	1.20	0.96	0.67
1096.9	1126.9	7.82	7.41	7.16	1096.9	1126.9	13.17	12.80	13.64	1096.9	1126.9	1.19	1.02	0.72
1137.2	1167.2	7.96	7.49	7.26	1137.2	1167.2	13.52	12.24	12.56	1137.2	1167.2	1.19	0.99	0.78
1177.4	1207.4	8.08	7.61	7.34	1177.4	1207.4	12.75	11.58	12.28	1177.4	1207.4	1.23	0.98	0.80
1217.7	1247.7	8.22	7.70	7.40	1217.7	1247.7	12.48	11.80	12.58	1217.7	1247.7	1.16	1.03	0.75
1257.9	1287.9	8.43	7.86	7.55	1257.9	1287.9	11.99	11.99	13.19	1257.9	1287.9	1.23	1.04	0.76
1298.2	1328.2	8.65	8.09	7.73	1298.2	1328.2	11.01	11.63	12.37	1298.2	1328.2	1.15	1.03	0.87
1338.5	1368.5	8.87	8.31	7.93	1338.5	1368.5	10.87	11.22	11.70	1338.5	1368.5	1.13	0.98	0.77
1378.7	1408.7	9.07	8.53	8.14	1378.7	1408.7	10.53	11.38	12.43	1378.7	1408.7	0.88	0.83	0.76
1419.0	1449.0	9.33	8.78	8.40	1419.0	1449.0	9.78	12.28	12.98	1419.0	1449.0	0.93	0.74	0.51
1459.2	1489.2	9.59	9.04	8.64	1459.2	1489.2	9.46	11.36	12.43	1459.2	1489.2	0.76	0.63	0.46
1499.5	1529.5	9.82	9.22	8.89	1499.5	1529.5	9.92	10.38	12.60	1499.5	1529.5	0.65	0.65	0.31
1539.7	1569.7	9.93	9.50	9.12	1539.7	1569.7	9.18	10.46	11.95	1539.7	1569.7	0.59	0.31	0.39
1600.1	1630.1	10.48	9.94	9.57	1600.1	1630.1	9.32	9.79	11.05	1600.1	1630.1	0.45	0.25	0.28

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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)=600.1MHz (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)=1200.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
500.0	100.1	6.65	10.0	20.1	6.57	500.0	700.1	7.57
487.8	112.4	6.64	22.6	32.7	6.43	487.4	712.7	7.56
475.5	124.6	6.61	35.1	45.2	6.43	474.9	725.2	7.55
463.3	136.9	6.57	47.7	57.8	6.46	462.3	737.8	7.54
451.0	149.1	6.58	60.3	70.4	6.45	449.7	750.4	7.55
438.8	161.4	6.56	72.8	82.9	6.48	437.2	762.9	7.58
426.5	173.6	6.55	85.4	95.5	6.45	424.6	775.5	7.58
414.3	185.9	6.54	97.9	108.0	6.48	412.1	788.0	7.56
402.0	198.1	6.51	110.5	120.6	6.50	399.5	800.6	7.54
389.8	210.4	6.50	123.1	133.2	6.51	386.9	813.2	7.54
377.5	222.6	6.47	135.6	145.7	6.50	374.4	825.7	7.54
365.3	234.9	6.46	148.2	158.3	6.54	361.8	838.3	7.57
353.0	247.1	6.47	160.8	170.9	6.50	349.2	850.9	7.58
340.8	259.4	6.47	173.3	183.4	6.55	336.7	863.4	7.58
328.5	271.6	6.47	185.9	196.0	6.55	324.1	876.0	7.57
316.3	283.9	6.45	198.5	208.6	6.53	311.5	888.6	7.58
304.0	296.1	6.44	211.0	221.1	6.57	299.0	901.1	7.58
291.8	308.4	6.44	223.6	233.7	6.53	286.4	913.7	7.55
279.5	320.6	6.44	236.2	246.3	6.59	273.8	926.3	7.55
267.3	332.9	6.44	248.7	258.8	6.57	261.3	938.8	7.58
255.0	345.1	6.45	261.3	271.4	6.58	248.7	951.4	7.58
242.8	357.4	6.43	273.8	283.9	6.62	236.2	963.9	7.56
230.5	369.6	6.44	286.4	296.5	6.64	223.6	976.5	7.57
218.3	381.9	6.46	299.0	309.1	6.63	211.0	989.1	7.57
206.0	394.1	6.46	311.5	321.6	6.65	198.5	1001.6	7.56
193.8	406.4	6.46	324.1	334.2	6.69	185.9	1014.2	7.54
181.5	418.6	6.46	336.7	346.8	6.67	173.3	1026.8	7.57
169.3	430.9	6.46	349.2	359.3	6.68	160.8	1039.3	7.59
157.0	443.1	6.48	361.8	371.9	6.69	148.2	1051.9	7.58
144.8	455.4	6.48	374.4	384.5	6.75	135.6	1064.5	7.57
132.5	467.6	6.49	386.9	397.0	6.79	123.1	1077.0	7.57
120.3	479.9	6.49	399.5	409.6	6.78	110.5	1089.6	7.55
108.0	492.1	6.49	412.1	422.2	6.77	97.9	1102.2	7.54
95.8	504.4	6.49	424.6	434.7	6.78	85.4	1114.7	7.56
83.5	516.6	6.50	437.2	447.3	6.78	72.8	1127.3	7.56
71.3	528.9	6.50	449.7	459.8	6.79	60.3	1139.8	7.57
59.0	541.1	6.51	462.3	472.4	6.84	47.7	1152.4	7.56
46.8	553.4	6.52	474.9	485.0	6.86	35.1	1165.0	7.61
22.3	577.9	6.52	487.4	497.5	6.81	22.6	1177.5	7.62
10.0	590.1	6.73	500.0	510.1	6.86	10.0	1190.1	7.77

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10
5.0	59.28	62.55	65.54	57.98	59.95	61.74
10.0	59.42	62.08	65.34	57.62	59.28	60.34
50.4	72.06	70.02	68.24	55.32	54.65	53.48
90.6	70.76	69.90	67.61	54.35	52.80	51.41
130.9	69.31	69.64	69.12	54.14	51.65	49.92
171.1	65.51	70.37	71.72	54.36	50.72	48.72
211.4	62.11	67.85	81.11	54.37	50.34	47.91
251.6	59.12	64.69	74.75	54.59	49.78	47.05
291.9	56.79	61.34	66.91	54.01	49.22	46.46
332.1	54.74	58.54	62.46	52.15	48.18	45.59
372.4	52.94	56.27	59.13	49.88	46.95	44.65
412.6	51.27	54.00	56.29	47.80	45.87	43.98
452.9	49.84	52.16	54.13	45.58	44.52	43.06
493.1	48.36	50.37	52.06	43.84	43.34	42.34
533.4	47.18	49.05	50.76	41.93	41.94	41.26
573.6	46.10	47.81	49.27	40.29	40.63	40.50
654.2	44.32	46.10	47.59	37.69	38.25	38.23
694.4	43.40	45.07	46.59	36.61	37.38	37.53
734.7	42.52	44.07	45.49	35.42	36.37	36.90
774.9	41.73	43.21	44.47	34.65	35.58	36.35
815.2	41.15	42.70	43.93	33.85	34.68	35.38
855.4	40.63	42.42	43.88	33.15	33.96	34.58
895.7	39.99	41.86	43.48	32.58	33.35	33.86
935.9	39.61	41.56	43.30	32.05	32.91	33.39
976.2	39.01	40.91	42.69	31.49	32.54	33.15
1016.4	38.60	40.43	42.18	30.99	32.16	32.97
1056.7	38.24	39.92	41.58	30.49	31.67	32.63
1096.9	37.86	39.43	40.97	29.97	31.08	32.05
1137.2	37.86	39.40	40.82	29.59	30.64	31.60
1177.4	38.08	39.74	41.02	29.30	30.29	31.23
1217.7	38.16	40.01	41.24	28.96	29.90	30.81
1257.9	38.26	40.12	41.33	28.80	29.69	30.56
1298.2	38.24	40.07	41.31	28.66	29.51	30.34
1338.5	38.19	39.87	41.09	28.38	29.19	29.95
1378.7	38.19	39.65	40.67	28.38	29.16	29.83
1419.0	38.21	39.40	40.19	28.29	29.05	29.69
1459.2	38.10	38.99	39.47	28.21	29.00	29.64
1499.5	38.04	38.62	38.80	28.22	29.14	29.82
1539.7	38.25	38.59	38.56	28.21	29.29	30.09
1600.1	38.65	38.75	38.57	27.90	29.04	29.92

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	39.79	46.84	43.91
50.4	80.4	35.98	35.71	35.41
90.6	120.6	31.23	30.78	30.78
130.9	160.9	28.48	28.27	28.04
171.1	201.1	26.57	26.39	26.22
211.4	241.4	25.24	25.08	24.95
251.6	281.6	24.39	24.25	24.16
291.9	321.9	23.80	23.67	23.59
332.1	362.1	23.41	23.32	23.22
372.4	402.4	23.13	23.08	23.03
412.6	442.6	22.99	23.05	23.04
452.9	482.9	22.84	22.94	22.98
493.1	523.1	22.49	22.60	22.65
533.4	563.4	22.01	22.10	22.14
573.6	603.6	21.33	21.44	21.48
613.9	643.9	20.43	20.60	20.72
654.2	684.2	19.33	19.53	19.71
694.4	724.4	18.09	18.28	18.44
734.7	764.7	16.89	17.04	17.18
774.9	804.9	15.82	15.93	16.04
815.2	845.2	14.84	14.93	15.02
855.4	885.4	14.02	14.07	14.16
895.7	925.7	13.32	13.35	13.43
935.9	965.9	12.74	12.76	12.83
976.2	1006.2	12.25	12.25	12.32
1016.4	1046.4	11.89	11.89	11.94
1056.7	1086.7	11.63	11.67	11.72
1096.9	1126.9	11.46	11.54	11.62
1137.2	1167.2	11.30	11.44	11.56
1177.4	1207.4	11.19	11.41	11.57
1217.7	1247.7	11.15	11.42	11.65
1257.9	1287.9	11.13	11.43	11.72
1298.2	1328.2	11.22	11.53	11.87
1338.5	1368.5	11.30	11.60	11.94
1378.7	1408.7	11.42	11.69	12.00
1419.0	1449.0	11.56	11.78	12.00
1459.2	1489.2	11.68	11.85	11.98
1499.5	1529.5	11.86	12.01	12.07
1539.7	1569.7	11.99	12.14	12.16
1600.1	1630.1	11.97	12.13	12.17

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RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1200.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
5.0	35.0	1.60	1.46	1.33	5.0	1.16	1.69	2.51	1.0	2.12	1.80	1.54
10.0	40.0	1.59	1.44	1.32	10.0	1.15	1.67	2.48	3.3	2.13	1.80	1.54
50.4	80.4	1.43	1.32	1.27	50.4	1.20	1.74	2.48	5.5	2.12	1.80	1.54
90.6	120.6	1.51	1.40	1.34	90.6	1.18	1.73	2.45	7.8	2.12	1.80	1.54
130.9	160.9	1.45	1.35	1.28	130.9	1.18	1.72	2.42	10.0	2.12	1.80	1.54
171.1	201.1	1.50	1.40	1.34	171.1	1.20	1.73	2.42	22.4	1.91	1.64	1.48
211.4	241.4	1.43	1.33	1.29	211.4	1.21	1.72	2.39	34.6	1.78	1.56	1.40
251.6	281.6	1.42	1.33	1.27	251.6	1.22	1.74	2.42	46.9	1.75	1.51	1.35
291.9	321.9	1.40	1.32	1.27	291.9	1.23	1.74	2.41	59.1	1.70	1.47	1.33
332.1	362.1	1.36	1.29	1.25	332.1	1.25	1.78	2.47	71.4	1.71	1.46	1.34
372.4	402.4	1.33	1.27	1.23	372.4	1.26	1.81	2.52	83.6	1.72	1.49	1.36
412.6	442.6	1.29	1.24	1.21	412.6	1.27	1.81	2.51	95.9	1.77	1.53	1.41
452.9	482.9	1.27	1.23	1.21	452.9	1.30	1.86	2.58	120.4	1.80	1.57	1.43
493.1	523.1	1.23	1.19	1.17	493.1	1.30	1.85	2.53	132.6	1.78	1.55	1.42
533.4	563.4	1.22	1.20	1.19	533.4	1.31	1.87	2.57	144.9	1.75	1.52	1.39
573.6	603.6	1.18	1.17	1.17	573.6	1.33	1.88	2.56	157.1	1.72	1.50	1.38
613.9	643.9	1.17	1.18	1.21	613.9	1.36	1.92	2.62	169.4	1.71	1.50	1.39
654.2	684.2	1.14	1.18	1.21	654.2	1.40	1.97	2.68	181.6	1.72	1.52	1.41
694.4	724.4	1.17	1.21	1.26	694.4	1.43	2.00	2.71	193.9	1.77	1.56	1.46
734.7	764.7	1.17	1.24	1.29	734.7	1.47	2.06	2.78	206.1	1.81	1.60	1.50
774.9	804.9	1.19	1.27	1.33	774.9	1.49	2.07	2.77	218.4	1.83	1.61	1.50
815.2	845.2	1.23	1.31	1.38	815.2	1.52	2.10	2.80	230.6	1.81	1.59	1.48
855.4	885.4	1.23	1.31	1.37	855.4	1.55	2.12	2.82	242.9	1.76	1.55	1.44
895.7	925.7	1.30	1.37	1.44	895.7	1.58	2.15	2.83	255.1	1.71	1.52	1.42
935.9	965.9	1.29	1.36	1.41	935.9	1.64	2.23	2.94	267.4	1.70	1.52	1.43
976.2	1006.2	1.35	1.43	1.48	976.2	1.67	2.25	2.93	279.6	1.72	1.55	1.47
1016.4	1046.4	1.38	1.45	1.50	1016.4	1.73	2.32	3.03	291.9	1.75	1.58	1.50
1056.7	1086.7	1.45	1.52	1.58	1056.7	1.76	2.34	3.04	304.1	1.77	1.59	1.52
1096.9	1126.9	1.53	1.60	1.66	1096.9	1.78	2.35	3.03	316.4	1.77	1.59	1.52
1137.2	1167.2	1.75	1.80	1.85	1137.2	1.84	2.41	3.10	340.9	1.72	1.55	1.48
1177.4	1207.4	1.73	1.80	1.87	1177.4	1.86	2.41	3.08	353.1	1.68	1.53	1.48
1217.7	1247.7	1.86	1.92	1.99	1217.7	1.91	2.47	3.14	365.4	1.68	1.55	1.50
1257.9	1287.9	1.99	2.03	2.09	1257.9	2.00	2.56	3.22	377.6	1.71	1.58	1.55
1298.2	1328.2	2.13	2.16	2.22	1298.2	2.01	2.57	3.23	389.9	1.75	1.62	1.59
1338.5	1368.5	2.28	2.30	2.34	1338.5	2.09	2.67	3.34	402.1	1.79	1.66	1.62
1378.7	1408.7	2.44	2.45	2.48	1378.7	2.12	2.68	3.35	414.4	1.79	1.65	1.61
1419.0	1449.0	2.66	2.66	2.67	1419.0	2.16	2.72	3.40	438.9	1.72	1.59	1.56
1459.2	1489.2	2.82	2.81	2.79	1459.2	2.19	2.74	3.40	451.1	1.69	1.58	1.56
1499.5	1529.5	3.10	3.09	3.04	1499.5	2.21	2.75	3.39	463.4	1.69	1.59	1.59
1539.7	1569.7	3.24	3.23	3.16	1539.7	2.27	2.80	3.45	487.9	1.77	1.69	1.69
1600.1	1630.1	3.60	3.60	3.52	1600.1	2.35	2.87	3.50	500.1	1.80	1.71	1.70

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	11	27	18	31	46	38	22	38	27	48
1	-	14	0	34	12	27	23	48	48	44	49	35
2	112	70	59	64	59	71	58	67	75	75	57	70
3	119	76	70	74	67	74	70	71	79	82	84	80
4	112	104	96	100	97	89	94	105	94	101	105	113
5	130	101	103	98	108	101	89	100	99	102	100	117
6	116	114	101	102	100	106	102	90	107	116	109	99
7	121	98	102	102	102	105	119	92	86	96	102	105
8	118	102	106	101	107	107	102	114	100	88	104	108
9	116	111	102	107	109	109	100	101	105	91	98	103
10	118	108	111	102	109	107	112	99	102	102	97	94
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 600.1 MHz; -14.00 dBm.
 LO IN: 630.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -20.70 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	21	37	28	43	53	50	35	49	42	62
1	-	14	0	33	12	28	24	53	47	48	51	40
2	93	65	50	55	49	77	52	61	66	65	51	65
3	112	56	48	54	45	59	50	49	51	65	71	61
4	125	78	78	69	71	70	74	70	64	71	80	88
5	116	83	77	74	61	75	59	75	60	73	65	81
6	111	108	97	86	90	81	80	82	80	99	82	87
7	126	92	105	91	80	79	77	87	76	89	83	87
8	126	133	104	120	112	102	107	105	110	93	101	94
9	113	104	110	113	109	112	102	98	97	113	90	99
10	105	110	114	120	115	115	112	107	114	101	101	99
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 600.1 MHz; -4.00 dBm.
 LO IN: 630.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -10.69 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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