

Frequency Mixer

JMS-5LH

Typical Performance Data

RF (MHz)	LO (MHz)	CONVERSION LOSS (dB)			LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
		@LO (dBm)				@LO (dBm)			@LO (dBm)		
		+7	+10	+13		+7	+10	+13	+7	+10	+13
10.0	40.0	6.19	5.72	5.52	10.0	67.9	67.7	67.1	67.8	67.0	61.3
20.0	50.0	5.96	5.51	5.37	20.0	67.0	65.4	63.7	64.7	62.1	55.7
50.0	80.0	5.72	5.28	5.12	50.0	67.8	62.5	59.9	58.2	56.4	48.9
100.0	70.0	5.66	5.24	5.10	100.0	81.3	60.6	56.9	52.3	50.7	43.5
154.2	124.2	5.68	5.27	5.13	154.2	63.6	57.7	53.5	48.9	47.0	39.5
200.0	170.0	5.64	5.26	5.14	200.0	55.4	54.0	50.9	44.7	43.8	36.5
298.4	263.4	5.83	5.39	5.21	298.4	45.5	46.2	45.4	38.9	37.5	32.0
442.6	412.6	6.36	5.83	5.59	442.6	37.7	38.4	38.1	33.2	30.5	26.4
500.0	470.0	6.53	6.00	5.59	500.0	35.5	36.3	36.3	31.0	28.2	24.7
586.8	556.8	6.76	6.07	5.62	536.8	32.8	33.5	33.7	27.6	24.9	22.2
731.0	701.0	7.69	6.90	6.39	731.0	29.2	30.2	30.6	22.3	20.7	18.7
750.0	720.0	7.35	6.57	6.11	750.0	28.9	29.9	30.4	21.7	20.1	18.3
875.2	845.2	7.75	7.15	6.81	875.2	27.0	28.4	29.3	19.1	16.9	15.4
1000.0	970.0	8.13	7.62	7.23	1000.0	25.9	27.4	28.6	16.9	15.4	13.9
1019.4	989.4	7.41	6.91	6.57	1019.4	25.5	27.0	28.3	16.5	15.0	13.6
1163.6	1133.5	8.22	7.82	7.69	1163.6	24.2	25.7	26.9	13.6	12.8	11.9
1259.7	1229.7	8.28	7.99	7.82	1259.7	23.6	25.0	26.2	12.4	11.9	11.2
1403.9	1373.9	8.44	7.89	7.76	1403.9	22.1	23.6	24.6	10.8	10.7	10.3
1451.9	1421.9	8.80	8.03	7.83	1451.9	21.7	23.2	24.3	10.6	10.6	10.4
1500.0	1470.0	9.07	8.11	7.81	1500.0	21.2	22.6	23.8	10.4	10.5	10.2

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IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant

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RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)			LO/RF (MHz)	max. DC output (mV)	DC Offset (mV)
	@LO (dBm)			@LO (dBm)				@LO (dBm)			@LO (dBm)		
	+7	+10	+13	+7	+10	+13		+7	+10	+13	+10		
10.0	1.67	1.65	1.71	1.89	2.80	4.01	10.0	1.10	1.12	1.35	10.0	328.4	0.06
20.0	1.30	1.30	1.33	1.85	2.77	4.01	20.0	1.10	1.13	1.35	20.0	331.2	0.04
50.0	1.06	1.04	1.04	1.96	2.82	4.19	50.0	1.15	1.16	1.37	50.0	339.1	0.09
100.0	1.26	1.21	1.22	1.87	2.67	3.92	100.0	1.27	1.21	1.37	100.0	333.4	0.04
154.2	1.54	1.47	1.50	1.84	2.56	3.67	106.1	1.29	1.22	1.37	106.1	328.8	0.08
200.0	1.80	1.70	1.74	1.78	2.44	3.33	200.0	1.56	1.39	1.40	200.0	325.6	0.18
298.4	2.34	2.15	2.24	1.71	2.24	2.90	202.3	1.56	1.39	1.40	250.3	325.6	0.65
442.6	2.89	2.60	2.74	1.59	1.92	2.32	250.3	1.67	1.45	1.39	394.5	315.4	1.74
500.0	2.91	2.60	2.75	1.54	1.88	2.36	298.4	1.75	1.50	1.39	500.0	306.9	2.80
586.8	2.63	2.43	2.55	1.52	1.88	2.34	394.5	1.83	1.53	1.35	538.7	287.6	2.51
731.0	2.53	2.37	2.48	1.79	2.39	3.07	442.6	1.82	1.51	1.31	682.9	285.8	4.90
750.0	2.51	2.36	2.47	1.97	2.56	3.27	500.0	1.76	1.46	1.25	731.0	293.6	6.73
875.2	3.36	3.20	3.44	2.58	3.36	4.25	538.7	1.68	1.40	1.21	875.2	297.9	9.35
1000.0	4.95	4.75	5.31	3.38	4.08	4.91	586.8	1.56	1.31	1.17	1000.0	296.0	8.51
1019.4	4.62	4.51	5.00	3.45	4.11	4.96	634.8	1.42	1.23	1.18	1019.4	301.9	8.65
1163.6	6.86	6.63	7.80	4.18	4.54	5.23	731.0	1.38	1.45	1.63	1163.6	302.5	7.10
1259.7	6.32	6.05	6.97	5.00	4.67	5.04	779.0	1.28	1.40	1.62	1259.7	289.8	6.81
1403.9	4.48	4.25	4.68	4.62	4.06	4.04	827.1	1.31	1.51	1.78	1403.9	288.7	10.07
1451.9	3.98	3.76	4.09	4.44	3.86	3.70	875.2	1.40	1.64	1.93	1451.9	287.5	13.78
1500.0	3.51	3.33	3.59	4.40	3.66	3.50	900.0	1.43	1.73	2.03	1500.0	277.6	19.02

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