

Frequency Mixer

SKY-53HR

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)		
		+14	+17	+20		+14	+17	+20	+14	+17	+20
2800.0	2830.0	7.48	7.10	6.73	2800.0	25.6	25.3	24.1	17.7	15.6	13.2
3000.0	3030.0	7.40	6.98	6.56	3000.0	22.4	22.9	22.7	13.6	13.4	11.7
3224.5	3254.5	6.55	6.23	6.06	3224.5	21.6	23.4	23.4	11.4	12.4	11.3
3413.2	3443.2	6.26	5.97	5.86	3413.2	21.4	23.9	24.8	10.2	11.5	11.0
3601.9	3631.9	6.44	6.04	5.86	3601.9	22.3	24.8	26.3	9.4	10.8	10.6
3649.1	3679.1	6.64	6.25	5.99	3649.1	22.6	25.1	26.8	9.7	10.9	10.7
3837.7	3867.7	6.49	6.43	6.28	3837.7	24.9	26.8	28.3	10.1	11.4	11.7
4000.0	4030.0	6.38	6.79	6.75	4000.0	26.1	29.5	32.4	10.9	12.2	12.6
4120.8	4090.8	6.53	6.93	6.93	4120.8	25.2	28.1	30.6	11.7	12.9	13.7
4215.1	4185.1	6.62	6.85	7.00	4215.1	28.5	31.9	33.2	12.1	13.4	14.3
4356.6	4326.6	6.72	6.62	7.26	4356.6	31.0	37.1	44.4	12.5	13.8	14.9
4498.1	4468.1	6.73	6.32	6.80	4498.1	31.7	34.5	37.6	13.0	14.2	15.5
4639.6	4609.6	6.73	6.33	6.55	4639.6	30.0	32.6	34.9	13.8	15.2	16.8
4781.1	4751.1	6.71	6.41	6.62	4781.1	28.3	30.1	31.1	15.5	17.0	18.7
4828.3	4798.3	6.79	6.48	6.68	4828.3	27.7	29.5	30.4	15.8	17.3	19.1
5000.0	4970.0	7.07	6.87	7.20	5000.0	26.9	29.0	29.7	18.1	19.5	21.2
5111.3	5081.3	7.36	7.09	7.29	5111.3	26.9	28.7	29.0	19.2	20.5	22.4
5158.5	5128.5	7.47	7.16	7.34	5158.5	26.6	28.3	28.4	19.4	21.0	22.9
5252.8	5222.8	7.78	7.42	7.50	5252.8	26.6	27.8	27.6	20.2	21.7	23.4
5300.0	5270.0	7.88	7.55	7.66	5300.0	26.6	27.6	27.2	20.6	22.0	23.5

REV. X1
SKY-53HR
060615
Page 1 of 2



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

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)		
	+14	+17	+20	+14	+17	+20		+14	+17	+20	+17		
2800.0	6.12	5.19	4.61	2.46	1.49	1.48	1.6	1.36	1.01	1.15	2800.0	773.2	-23.06
3000.0	4.60	3.73	3.75	1.97	1.35	1.44	3.3	1.36	1.01	1.15	2931.6	667.1	11.77
3224.5	2.87	2.66	2.93	1.70	1.24	1.43	5.5	1.36	1.01	1.15	3063.2	715.9	10.79
3413.2	1.97	2.26	2.70	1.63	1.19	1.41	7.8	1.36	1.01	1.15	3194.7	616.3	-27.82
3601.9	1.59	2.21	2.81	1.42	1.10	1.46	10.0	1.36	1.01	1.15	3326.3	491.6	-76.80
3649.1	1.59	2.28	2.88	1.39	1.09	1.53	12.0	1.36	1.01	1.15	3457.9	483.7	-6.34
3837.7	1.73	2.48	3.24	1.18	1.05	1.48	34.0	1.37	1.01	1.15	3589.5	527.9	-6.38
4000.0	1.94	2.55	3.09	1.34	1.21	1.55	56.0	1.37	1.02	1.13	3721.1	448.5	-19.11
4120.8	2.08	2.61	3.03	1.48	1.33	1.57	78.0	1.36	1.02	1.14	3852.6	388.0	-16.44
4215.1	2.08	2.61	3.07	1.61	1.38	1.57	100.0	1.36	1.02	1.14	3984.2	478.4	10.22
4356.6	2.11	2.62	3.04	1.69	1.37	1.57	150.0	1.36	1.03	1.13	4115.8	435.0	-8.51
4498.1	2.19	2.69	3.16	1.84	1.53	1.71	188.9	1.37	1.04	1.11	4247.4	278.2	-25.26
4639.6	2.36	2.85	3.32	2.01	1.70	1.84	227.8	1.38	1.04	1.11	4379.0	174.5	-24.83
4781.1	2.67	3.17	3.71	2.73	2.13	2.13	266.7	1.42	1.07	1.07	4510.5	333.8	-2.64
4828.3	2.81	3.32	3.85	2.62	2.02	1.95	305.6	1.46	1.10	1.07	4642.1	339.4	-1.26
5000.0	3.24	3.70	4.24	3.20	2.27	1.95	344.4	1.51	1.14	1.06	4773.7	93.4	-10.15
5111.3	3.55	3.97	4.48	2.77	2.01	1.67	383.3	1.57	1.18	1.08	4905.3	127.0	-22.47
5158.5	3.61	4.03	4.54	3.04	2.12	1.72	422.2	1.63	1.22	1.09	5036.8	232.7	-26.14
5252.8	3.89	4.30	4.77	2.87	1.98	1.64	461.1	1.69	1.27	1.12	5168.4	24.9	-22.22
5300.0	3.91	4.27	4.77	2.53	1.84	1.57	500.0	1.74	1.30	1.13	5300.0	-100.9	-25.84

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Page 2 of 2



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