

# Frequency Mixer

# SKY-53R

## 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)		
		+4	+7	+10		+4	+7	+10	+4	+7	+10
2800.0	2830.0	7.45	7.12	6.92	2800.0	24.1	24.1	23.4	15.1	13.9	12.4
3000.0	3030.0	7.22	6.88	6.69	3000.0	23.3	23.7	23.6	13.0	12.6	11.6
3224.5	3254.5	6.57	6.25	6.09	3224.5	21.9	22.6	22.6	11.9	12.0	11.4
3413.2	3443.2	6.32	6.05	5.92	3413.2	22.2	23.6	24.3	11.2	11.7	11.4
3601.9	3631.9	6.44	6.11	5.95	3601.9	23.1	24.8	25.9	10.5	11.2	11.3
3649.1	3679.1	6.54	6.24	6.06	3649.1	23.6	25.1	26.2	10.4	11.2	11.3
3837.7	3867.7	6.75	6.61	6.49	3837.7	24.6	26.0	27.3	10.9	11.7	11.7
4000.0	4030.0	6.96	7.06	7.03	4000.0	26.3	28.4	30.2	11.6	12.7	13.0
4120.8	4090.8	7.08	7.21	7.18	4120.8	24.9	27.4	29.6	12.4	13.5	14.1
4215.1	4185.1	7.16	7.34	7.35	4215.1	26.2	28.5	30.1	12.9	14.0	14.8
4356.6	4326.6	7.09	7.24	7.74	4356.6	33.2	38.8	40.6	13.4	14.5	15.5
4498.1	4468.1	7.04	6.98	7.36	4498.1	38.3	43.8	39.8	13.8	15.0	16.0
4639.6	4609.6	7.11	6.95	7.18	4639.6	35.0	37.0	36.2	14.9	16.1	17.2
4781.1	4751.1	7.33	7.19	7.38	4781.1	32.9	34.5	33.7	16.4	17.7	18.9
4828.3	4798.3	7.41	7.25	7.42	4828.3	32.4	33.7	32.9	16.9	18.2	19.5
5000.0	4970.0	7.97	7.82	7.97	5000.0	30.5	30.6	29.3	19.2	20.4	21.8
5111.3	5081.3	8.36	8.17	8.34	5111.3	30.3	30.1	28.7	20.3	21.6	23.0
5158.5	5128.5	8.55	8.26	8.42	5158.5	30.1	29.7	28.3	20.8	22.1	23.5
5252.8	5222.8	8.92	8.57	8.71	5252.8	29.6	29.0	27.6	21.6	22.9	24.2
5300.0	5270.0	9.13	8.76	8.92	5300.0	29.5	28.5	27.0	22.0	23.3	24.5

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P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



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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)		
	+4	+7	+10	+4	+7	+10		+4	+7	+10	+7		
2800.0	3.77	3.53	3.39	1.63	1.24	1.42	1.6	1.46	1.26	1.10	2800.0	214.3	-4.49
3000.0	2.83	2.79	2.83	1.50	1.18	1.39	3.3	1.46	1.26	1.10	2931.6	185.7	-1.78
3224.5	2.15	2.34	2.45	1.44	1.12	1.37	5.5	1.46	1.26	1.10	3063.2	183.1	-6.74
3413.2	1.93	2.15	2.39	1.39	1.09	1.36	7.8	1.47	1.26	1.10	3194.7	165.1	-15.27
3601.9	1.91	2.21	2.47	1.29	1.06	1.39	10.0	1.47	1.26	1.10	3326.3	164.0	-17.99
3649.1	1.93	2.24	2.50	1.26	1.06	1.42	12.0	1.47	1.26	1.10	3457.9	157.6	1.03
3837.7	2.14	2.46	2.74	1.22	1.10	1.43	34.0	1.46	1.26	1.11	3589.5	157.7	-5.33
4000.0	2.26	2.55	2.81	1.39	1.25	1.45	56.0	1.47	1.27	1.11	3721.1	144.7	-8.70
4120.8	2.36	2.66	2.91	1.45	1.28	1.44	78.0	1.48	1.28	1.12	3852.6	140.1	-7.82
4215.1	2.50	2.82	3.06	1.50	1.29	1.44	100.0	1.49	1.29	1.14	3984.2	149.5	-0.54
4356.6	2.68	2.97	3.24	1.51	1.28	1.45	150.0	1.51	1.31	1.18	4115.8	127.7	-7.20
4498.1	2.83	3.09	3.27	1.64	1.41	1.60	188.9	1.52	1.34	1.22	4247.4	85.3	-13.62
4639.6	3.13	3.40	3.62	1.81	1.58	1.72	227.8	1.55	1.37	1.24	4379.0	66.0	-5.33
4781.1	3.60	3.65	3.89	2.34	1.86	1.87	266.7	1.58	1.40	1.28	4510.5	94.7	-1.82
4828.3	3.61	3.87	4.08	2.34	1.83	1.81	305.6	1.61	1.44	1.32	4642.1	72.3	-6.98
5000.0	4.21	4.43	4.62	2.47	1.82	1.61	344.4	1.63	1.46	1.34	4773.7	34.1	-9.93
5111.3	4.72	4.90	5.07	2.28	1.69	1.48	383.3	1.66	1.50	1.39	4905.3	37.1	-10.08
5158.5	4.97	5.18	5.30	2.30	1.67	1.46	422.2	1.69	1.53	1.42	5036.8	56.3	-10.09
5252.8	5.28	5.41	5.51	2.17	1.57	1.42	461.1	1.73	1.57	1.45	5168.4	16.5	-10.65
5300.0	5.68	5.62	5.70	2.06	1.53	1.42	500.0	1.75	1.59	1.48	5300.0	-12.5	-10.49

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