

# Frequency Mixer

# ROK-2500LH

## 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
1.0	31.0	6.05	5.61	5.40	1.0	67.9	68.8	70.4	82.0	73.8	67.0
2.0	32.0	5.89	5.48	5.25	2.0	67.0	68.4	70.0	79.9	70.4	65.5
5.8	35.8	5.79	5.40	5.17	5.8	67.0	68.2	70.0	69.7	65.7	62.4
9.4	39.4	5.80	5.39	5.18	9.4	66.8	68.1	69.9	65.6	62.5	60.1
20.9	50.9	5.83	5.44	5.21	20.9	64.9	66.4	68.5	53.6	51.7	50.6
54.4	84.4	5.92	5.48	5.24	54.4	62.9	65.0	67.5	46.2	44.6	43.6
103.0	73.0	5.94	5.57	5.30	103.0	59.6	61.8	64.4	41.7	39.8	38.5
194.9	164.9	6.21	5.70	5.39	194.9	54.9	56.9	59.2	36.5	34.8	33.3
507.4	477.4	6.11	5.71	5.48	507.4	48.5	50.1	52.2	26.5	27.7	28.0
960.3	930.3	7.04	6.69	6.47	960.3	43.4	44.1	45.0	19.2	19.9	20.5
1126.3	1096.3	7.38	6.96	6.67	1126.3	38.7	39.6	40.7	17.3	17.9	18.5
1250.0	1220.0	7.61	7.16	6.86	1250.0	37.3	38.4	39.5	17.3	18.2	18.9
1400.0	1370.0	7.71	7.16	6.85	1400.0	36.5	38.0	39.0	17.8	18.8	19.9
1549.4	1519.4	7.90	7.27	6.87	1549.4	35.5	36.8	38.2	18.2	19.5	20.7
1700.0	1670.0	8.02	7.35	6.88	1700.0	34.9	36.1	37.0	18.9	20.2	21.5
1900.0	1870.0	8.55	7.52	6.96	1900.0	34.5	35.1	35.6	20.0	21.0	21.9
2131.5	2101.5	8.78	7.58	7.01	2131.5	34.8	35.8	36.3	23.1	23.8	24.8
2300.0	2270.0	9.01	7.76	7.19	2300.0	36.7	40.0	41.8	28.3	31.0	32.3
2400.0	2370.0	9.01	7.77	7.33	2400.0	38.8	44.0	46.4	36.3	36.3	30.5
2500.0	2470.0	9.05	7.98	7.55	2500.0	41.2	49.0	49.4	40.0	32.0	26.9

REV. X1  
ROK-2500LH  
060613  
Page 1 of 2



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# ROK-2500LH

## 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)		
	+7	+10	+13	+7	+10	+13		+7	+10	+13	+10		
1.0	1.39	1.24	1.24	1.93	2.54	3.56	0.3	1.72	1.29	1.05	1	-335.0	-0.33
2.0	1.37	1.17	1.13	1.65	2.37	3.41	0.7	1.72	1.29	1.05	10	-345.6	-0.29
5.8	1.37	1.14	1.05	1.51	2.27	3.35	1.2	1.73	1.29	1.05	20	-351.4	-0.29
9.4	1.38	1.14	1.03	1.49	2.24	3.32	1.6	1.72	1.29	1.05	50	-360.7	-0.27
20.9	1.38	1.14	1.02	1.51	2.25	3.29	2.0	1.73	1.29	1.05	100	-346.3	-0.19
54.4	1.40	1.16	1.05	1.48	2.18	3.13	3.0	1.73	1.29	1.05	200	-338.8	-0.76
103.0	1.41	1.19	1.12	1.47	2.14	3.05	4.8	1.73	1.29	1.05	300	-332.1	-0.52
194.9	1.49	1.30	1.26	1.54	2.11	2.93	6.5	1.73	1.29	1.05	400	-293.0	-0.07
507.4	1.79	1.59	1.53	1.97	1.83	2.12	8.3	1.73	1.29	1.05	500	-287.2	-1.06
960.3	2.89	2.51	2.29	1.46	1.06	1.37	10.0	1.73	1.29	1.05	750	-182.4	-1.07
1126.3	3.76	3.25	2.91	1.11	1.31	1.76	30.0	1.72	1.29	1.05	1000	-151.1	2.16
1250.0	4.54	3.88	3.41	1.29	1.62	2.10	60.0	1.74	1.31	1.08	1200	-79.3	2.34
1400.0	4.27	3.75	3.38	1.85	2.14	2.60	90.0	1.69	1.27	1.04	1400	-24.5	-0.32
1549.4	3.35	2.92	2.63	2.64	2.77	3.16	120.0	1.63	1.23	1.07	1600	33.3	-1.28
1700.0	2.92	2.49	2.21	3.74	3.40	3.52	150.0	1.67	1.27	1.09	1800	78.2	-1.34
1900.0	2.56	2.20	1.97	5.35	4.07	3.57	200.0	1.49	1.13	1.11	2000	126.2	-1.21
2131.5	1.95	1.71	1.56	5.90	4.15	3.21	275.0	1.39	1.06	1.16	2150	140.2	-3.18
2300.0	1.62	1.49	1.41	4.72	3.46	2.68	350.0	1.27	1.03	1.24	2250	139.8	-4.93
2400.0	1.52	1.46	1.45	3.91	2.98	2.37	425.0	1.13	1.16	1.39	2400	201.5	-6.22
2500.0	1.54	1.52	1.55	3.01	2.50	2.10	500.0	1.15	1.27	1.49	2500	219.2	-6.44

REV. X1  
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Page 2 of 2



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