

Frequency Mixer

SRA-2CR

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	6.30	5.87	5.62	10.0	56.7	60.1	63.8	50.4	51.7	53.0
20.0	50.0	6.06	5.70	5.51	20.0	56.6	60.0	63.6	44.3	45.8	46.9
50.0	80.0	6.34	5.95	5.76	50.0	56.9	60.3	63.5	37.0	38.6	40.2
97.4	67.4	6.58	6.16	5.88	97.4	56.0	59.2	62.2	31.8	34.2	36.0
100.0	70.0	6.57	6.13	5.85	100.0	55.9	59.1	62.2	31.6	34.0	35.8
184.7	154.7	6.30	5.91	5.72	184.7	54.9	58.8	57.6	28.5	30.3	31.7
200.0	170.0	6.22	5.89	5.74	200.0	55.0	58.9	57.1	28.0	29.8	31.3
272.1	242.1	6.35	6.04	5.84	272.1	60.1	66.0	57.1	26.0	27.7	29.1
359.4	329.4	6.49	6.13	5.89	359.4	58.2	61.9	54.4	23.3	25.2	26.7
446.8	416.8	6.51	6.07	5.75	446.8	47.9	48.7	47.5	23.2	24.8	26.5
475.9	445.9	6.18	5.85	5.63	475.9	46.3	47.0	45.3	23.5	25.2	26.8
500.0	470.0	6.09	5.79	5.60	500.0	43.1	43.3	42.1	23.6	25.7	27.3
534.1	504.1	6.09	5.81	5.63	534.1	41.4	41.6	41.5	23.2	25.7	27.6
621.5	591.5	6.15	5.98	5.93	621.5	55.0	59.0	52.1	22.2	25.7	28.3
708.8	678.8	6.66	6.42	6.26	708.8	44.9	43.6	41.5	23.2	26.2	28.9
796.2	766.2	8.11	7.24	6.57	796.2	37.7	37.7	38.3	25.5	27.2	27.5
883.5	853.5	8.40	7.19	6.49	883.5	37.6	37.8	38.1	26.2	26.2	25.0
941.8	911.8	8.07	7.28	6.76	941.8	38.1	38.4	38.6	23.2	22.0	21.1
970.9	940.9	8.17	7.40	6.95	970.9	38.1	38.4	38.6	21.5	20.2	19.3
1000.0	970.0	8.40	7.66	7.15	1000.0	37.6	38.1	38.1	19.6	18.5	17.5

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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)		
	+7	+10	+13	+7	+10	+13		+7	+10	+13	+10		
10.0	1.51	1.44	1.39	1.53	2.29	3.35	5.0	1.66	1.46	1.32	10.0	-356.4	-0.89
20.0	1.49	1.42	1.37	1.47	2.27	3.27	10.0	1.67	1.47	1.33	20.0	-351.8	-0.89
50.0	1.45	1.39	1.34	1.58	2.37	3.42	20.0	1.67	1.46	1.33	50.0	-337.6	-0.91
97.4	1.45	1.38	1.34	1.53	2.30	3.30	48.7	1.66	1.46	1.32	97.4	-344.2	-1.00
100.0	1.45	1.38	1.34	1.49	2.29	3.25	50.0	1.66	1.45	1.32	100.0	-344.3	-1.02
184.7	1.44	1.38	1.35	1.53	2.24	3.15	92.4	1.66	1.44	1.30	184.7	-349.8	-0.91
200.0	1.44	1.38	1.35	1.53	2.25	3.16	100.0	1.65	1.43	1.29	200.0	-351.6	-0.88
272.1	1.45	1.40	1.39	1.60	2.33	3.21	136.0	1.62	1.40	1.27	272.1	-344.0	-0.70
359.4	1.49	1.47	1.47	1.72	2.38	3.20	179.7	1.57	1.35	1.23	359.4	-311.0	-0.73
446.8	1.56	1.57	1.59	1.83	2.45	3.24	200.0	1.54	1.32	1.20	446.8	-302.8	-0.51
475.9	1.59	1.61	1.63	1.88	2.47	3.20	223.4	1.48	1.28	1.17	475.9	-321.4	-1.24
500.0	1.61	1.64	1.66	1.92	2.52	3.25	237.9	1.45	1.26	1.16	500.0	-335.2	-1.63
534.1	1.63	1.68	1.71	2.02	2.60	3.33	252.5	1.42	1.23	1.14	534.1	-345.9	-1.17
621.5	1.71	1.78	1.83	2.25	2.84	3.58	281.6	1.34	1.17	1.12	621.5	-336.7	-1.52
708.8	1.74	1.83	1.91	2.34	3.00	3.78	325.3	1.22	1.08	1.12	708.8	-293.2	-1.48
796.2	1.65	1.70	1.75	2.39	3.00	3.74	369.0	1.10	1.07	1.20	796.2	-235.2	-2.17
883.5	1.56	1.54	1.55	2.46	3.03	3.79	412.6	1.08	1.19	1.33	883.5	-252.0	-1.80
941.8	1.62	1.58	1.56	2.55	3.04	3.65	456.3	1.23	1.36	1.51	941.8	-261.5	-1.10
970.9	1.75	1.71	1.69	2.61	3.04	3.60	485.4	1.37	1.51	1.65	970.9	-268.1	-0.05
1000.0	1.90	1.87	1.85	2.67	3.01	3.44	500.0	1.45	1.59	1.73	1000.0	-270.2	0.15

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