

Frequency Mixer

SRA-ED7518A/1

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
0.8	30.8	8.60	8.10	7.90	30.8	76.0	75.5	73.7	55.7	55.1	55.2
1.0	31.0	8.28	7.88	7.58	31.0	76.3	75.2	72.9	55.3	55.1	54.9
2.0	32.0	7.55	7.15	6.95	32.0	76.1	74.8	73.6	54.4	53.7	53.8
5.0	35.0	6.90	6.60	6.30	35.0	76.4	74.9	73.1	61.7	61.2	61.1
10.0	40.0	6.71	6.21	6.11	40.0	74.7	73.6	72.2	64.0	63.7	63.4
20.0	50.0	6.71	6.31	6.11	50.0	76.6	73.9	72.1	57.8	57.5	56.6
50.0	80.0	6.90	6.50	6.10	80.0	71.7	70.7	70.0	59.3	58.5	57.6
75.1	105.1	6.96	6.56	6.26	105.1	68.7	68.6	68.0	59.2	57.4	56.2
100.0	130.0	6.97	6.67	6.27	130.0	67.6	67.3	67.1	53.3	52.0	51.5
150.1	180.1	7.26	6.76	6.46	180.1	63.6	63.6	63.3	51.7	50.5	49.9
225.1	255.1	7.34	6.94	6.64	255.1	59.5	59.6	59.8	46.3	45.8	45.2
300.1	330.1	7.47	6.87	6.67	330.1	56.7	56.5	57.0	44.8	43.4	42.5
375.1	405.1	8.08	7.28	6.88	405.1	54.0	53.8	53.9	42.5	41.1	40.0
450.1	480.1	9.01	8.21	7.61	480.1	54.6	55.8	56.3	40.0	38.7	37.4
500.0	530.0	8.56	7.86	7.46	530.0	53.1	53.9	54.7	38.8	37.0	35.7
525.1	555.1	8.24	7.74	7.34	555.1	52.8	53.4	54.1	38.1	36.3	34.8
600.1	630.1	7.80	7.40	7.20	630.1	51.2	51.2	51.4	35.9	33.6	32.1
675.1	705.1	7.50	7.10	6.90	705.1	51.9	51.2	50.9	33.7	31.5	29.6
750.1	780.1	7.58	6.88	6.68	780.1	51.2	49.8	48.9	31.6	30.0	28.5
825.0	855.0	8.33	7.23	6.93	855.0	49.9	47.5	46.2	31.9	31.3	30.4
900.0	930.0	8.63	7.33	6.93	930.0	49.5	49.0	47.7	35.1	34.7	33.7
970.0	1000.0	8.62	7.42	6.92	1000.0	47.8	48.3	48.5	39.1	38.3	37.0
975.0	1005.0	8.67	7.37	6.97	1005.0	47.8	48.3	48.5	39.6	38.6	37.2
1000.0	1030.0	8.52	7.52	6.92	1030.0	47.5	47.7	48.0	41.1	40.1	38.6
1050.0	1080.0	8.63	7.63	7.23	1080.0	46.9	46.9	47.1	44.2	42.7	41.2
1125.0	1155.0	8.95	7.95	7.55	1155.0	47.4	47.4	47.0	50.0	47.4	45.2

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Typical Performance Data

RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)		
	@LO (dBm)			@LO (dBm)				@LO (dBm)		
	+4	+7	+10	+4	+7	+10		+4	+7	+10
30.8	2.16	2.16	2.16	1.08	1.53	2.04	0.1	2.14	1.52	1.23
31.0	1.99	1.97	1.97	1.08	1.53	2.06	0.2	2.12	1.49	1.20
32.0	1.56	1.54	1.55	1.09	1.53	2.04	0.5	2.20	1.56	1.25
35.0	1.28	1.24	1.24	1.09	1.54	2.04	1.0	2.27	1.59	1.27
40.0	1.20	1.13	1.10	1.11	1.52	2.04	5.0	2.16	1.54	1.23
50.0	1.19	1.09	1.03	1.13	1.52	2.04	10.0	2.16	1.54	1.23
80.0	1.25	1.18	1.14	1.21	1.53	2.06	30.0	2.10	1.51	1.21
105.1	1.33	1.27	1.24	1.27	1.57	2.06	45.1	2.06	1.50	1.21
130.0	1.44	1.37	1.33	1.33	1.59	2.10	50.0	2.04	1.48	1.20
180.1	1.70	1.62	1.58	1.43	1.61	2.06	90.1	2.08	1.48	1.19
255.1	2.14	2.04	1.97	1.60	1.69	2.12	100.0	1.99	1.44	1.18
330.1	2.52	2.35	2.25	1.82	1.78	2.08	135.1	1.99	1.42	1.16
405.1	2.96	2.68	2.52	2.04	1.88	2.06	180.1	1.82	1.33	1.12
480.1	3.95	3.64	3.44	2.27	2.04	2.12	225.1	1.70	1.26	1.10
530.0	3.79	3.50	3.38	2.58	2.18	2.20	250.0	1.65	1.23	1.11
555.1	3.57	3.38	3.21	2.72	2.23	2.25	270.1	1.60	1.21	1.12
630.1	3.06	2.84	2.72	3.21	2.43	2.32	315.1	1.50	1.17	1.18
705.1	2.65	2.35	2.18	3.79	2.68	2.43	360.1	1.39	1.18	1.26
780.1	2.35	1.96	1.77	3.95	2.76	2.37	405.1	1.32	1.23	1.35
855.0	2.20	1.85	1.66	4.03	2.80	2.32	450.1	1.32	1.33	1.46
930.0	2.03	1.73	1.54	4.12	2.92	2.35	495.0	1.39	1.44	1.58
1000.0	1.81	1.56	1.42	4.89	3.16	2.40	501.0	1.39	1.44	1.58
1005.0	1.84	1.56	1.43	4.89	3.11	2.40	540.0	1.48	1.56	1.68
1030.0	1.77	1.56	1.43	4.53	3.11	2.40	585.0	1.61	1.66	1.77
1080.0	1.80	1.63	1.54	5.33	3.32	2.49	630.0	1.76	1.76	1.82
1155.0	2.08	1.94	1.88	5.66	3.26	2.35	675.0	1.88	1.81	1.82