

Frequency Mixer

SRA-ED6735/1

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)		
		+14	+17	+20		+14	+17	+20	+14	+17	+20
0.3	30.3	4.92	4.82	4.72	30.3	59.5	58.9	58.5	70.8	71.8	72.3
0.4	30.4	4.89	4.79	4.79	30.4	59.4	58.8	58.6	70.9	72.2	72.5
0.8	30.8	4.91	4.71	4.81	30.8	59.3	58.7	58.4	71.2	71.7	72.5
1.0	31.0	4.89	4.79	4.69	31.0	59.4	58.7	58.4	71.6	71.8	72.3
5.0	35.0	4.92	4.82	4.72	35.0	58.5	57.7	57.8	70.3	71.1	71.8
10.0	40.0	4.96	4.86	4.76	40.0	57.6	57.2	57.0	69.2	70.3	70.8
50.0	80.0	5.06	4.96	4.86	80.0	53.3	52.3	51.3	65.3	66.4	66.9
79.0	109.0	5.09	4.99	4.89	109.0	50.8	50.1	49.0	62.6	63.3	63.7
100.0	130.0	5.13	5.03	4.93	130.0	48.9	49.1	48.1	59.2	60.1	60.9
158.0	188.0	5.03	4.93	4.93	188.0	44.6	45.7	45.0	55.1	56.4	57.1
236.9	266.9	4.98	4.98	4.88	266.9	39.5	41.2	42.0	54.3	55.1	56.6
315.9	345.9	5.58	5.38	5.28	345.9	39.3	41.6	41.7	48.8	50.6	51.8
394.8	424.8	5.15	4.95	4.95	424.8	33.2	35.3	37.0	41.2	42.8	43.7
473.8	503.8	5.30	5.10	4.80	503.8	30.4	32.3	34.3	41.2	41.5	40.9
552.7	582.7	5.37	5.07	5.07	582.7	28.7	28.7	29.1	40.7	40.7	40.2
570.0	600.0	5.34	5.14	5.04	600.0	26.9	27.2	27.6	38.8	39.4	40.0
631.6	661.6	5.29	5.29	5.29	661.6	25.1	25.4	25.5	36.1	37.0	37.8
710.6	740.6	5.66	5.56	5.66	740.6	24.5	23.7	23.0	34.4	34.2	34.3
789.5	819.5	6.50	6.40	6.30	819.5	23.6	21.9	20.9	31.6	30.3	29.4
800.0	830.0	6.66	6.66	6.66	830.0	23.4	21.5	20.6	31.5	29.8	28.9

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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)		
	+14	+17	+20	+14	+17	+20		+14	+17	+20
30.3	1.23	1.14	1.09	2.49	3.95	5.33	1.0	1.31	1.25	1.22
30.3	1.23	1.14	1.09	2.49	3.95	5.33	5.0	1.30	1.22	1.17
30.4	1.23	1.15	1.10	2.55	3.86	5.33	10.0	1.30	1.21	1.17
30.4	1.23	1.15	1.10	2.55	3.86	5.33	28.2	1.28	1.20	1.16
30.8	1.25	1.16	1.11	2.58	3.95	5.33	30.0	1.28	1.21	1.16
30.8	1.25	1.16	1.11	2.58	3.95	5.33	56.3	1.29	1.21	1.17
31.0	1.26	1.17	1.12	2.49	3.95	5.33	75.0	1.28	1.21	1.16
31.0	1.26	1.17	1.12	2.49	3.95	5.33	84.4	1.29	1.22	1.17
35.0	1.24	1.16	1.10	2.55	3.86	5.33	100.0	1.30	1.23	1.18
35.0	1.24	1.16	1.10	2.55	3.86	5.33	112.5	1.30	1.24	1.19
40.0	1.25	1.16	1.10	2.49	3.79	5.33	140.6	1.32	1.25	1.21
40.0	1.25	1.16	1.10	2.49	3.79	5.33	168.6	1.33	1.26	1.22
80.0	1.20	1.13	1.10	2.52	3.86	5.33	196.7	1.34	1.27	1.23
80.0	1.20	1.13	1.10	2.52	3.86	5.33	224.8	1.35	1.28	1.24
109.0	1.23	1.17	1.13	2.46	3.64	5.03	252.9	1.37	1.30	1.26
109.0	1.23	1.17	1.13	2.46	3.64	5.03	281.0	1.38	1.31	1.26
130.0	1.25	1.20	1.15	2.52	3.71	5.33	309.1	1.40	1.32	1.27
130.0	1.25	1.20	1.15	2.52	3.71	5.33	337.2	1.40	1.32	1.26
188.0	1.40	1.32	1.26	2.55	3.71	5.03	365.3	1.39	1.30	1.24
188.0	1.40	1.32	1.26	2.55	3.71	5.03	393.4	1.38	1.29	1.24
266.9	1.44	1.34	1.27	2.80	4.12	5.66				
266.9	1.44	1.34	1.27	2.80	4.12	5.66				
345.9	1.54	1.45	1.39	2.96	4.42	6.26				
345.9	1.54	1.45	1.39	2.96	4.42	6.26				
424.8	1.35	1.32	1.34	3.32	4.89	7.00				
424.8	1.35	1.32	1.34	3.32	4.89	7.00				
503.8	1.38	1.25	1.20	3.44	5.03	6.49				
503.8	1.38	1.25	1.20	3.44	5.03	6.49				
582.7	1.14	1.11	1.16	3.11	4.32	5.66				
582.7	1.14	1.11	1.16	3.11	4.32	5.66				
600.0	1.08	1.11	1.18	3.50	5.03	7.00				
600.0	1.08	1.11	1.18	3.50	5.03	7.00				
661.6	1.05	1.12	1.18	2.92	3.86	4.77				
661.6	1.05	1.12	1.18	2.92	3.86	4.77				
740.6	1.17	1.23	1.28	3.11	3.79	4.64				
740.6	1.17	1.23	1.28	3.11	3.79	4.64				
819.5	1.39	1.43	1.47	3.57	4.22	5.03				
819.5	1.39	1.43	1.47	3.57	4.22	5.03				
830.0	1.44	1.48	1.52	3.38	4.03	4.77				
830.0	1.44	1.48	1.52	3.38	4.03	4.77				