

Frequency Mixer

SRA-ED6965/1

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)		
		+10	+13	+16		+10	+13	+16	+10	+13	+16
8.0	38.0	6.98	6.98	6.88	38.0	63.2	62.1	61.5	38.2	39.2	40.3
10.0	40.0	6.67	6.57	6.57	40.0	62.8	62.1	61.5	38.1	39.1	40.3
40.0	70.0	6.01	5.91	5.81	70.0	62.8	61.6	60.9	37.8	39.0	40.1
80.0	110.0	5.97	5.87	5.87	110.0	62.2	60.8	60.1	37.8	39.0	40.2
128.2	158.2	6.07	5.97	5.87	158.2	61.7	60.3	59.7	38.0	39.1	40.0
254.4	284.4	6.42	6.22	6.12	284.4	61.3	59.5	58.4	38.7	39.0	39.0
380.6	410.6	6.74	6.54	6.44	410.6	61.2	60.3	59.1	39.1	38.2	37.7
500.0	530.0	7.27	6.97	6.87	530.0	56.1	55.9	55.6	38.4	37.1	36.1
506.8	536.8	7.27	7.07	6.87	536.8	55.6	55.7	55.4	38.4	37.0	36.2
633.1	663.1	7.25	7.05	7.05	663.1	54.2	55.4	56.6	37.1	36.0	35.2
759.3	789.3	8.03	7.93	7.93	789.3	51.1	51.9	52.3	35.0	34.6	34.0
885.5	915.5	8.18	8.08	8.18	915.5	51.7	52.3	51.9	33.5	33.4	33.1
1000.0	1030.0	8.05	8.05	8.05	1030.0	51.0	51.7	50.4	32.0	32.2	32.1
1011.7	1041.7	8.19	8.09	8.19	1041.7	50.8	51.7	49.9	31.9	32.1	32.0
1137.9	1167.9	8.02	7.92	8.02	1167.9	49.2	49.7	48.1	30.9	31.1	31.3
1264.1	1294.1	7.82	7.82	7.92	1294.1	42.1	42.0	41.3	29.3	29.6	30.0
1390.3	1420.3	8.05	7.95	8.05	1420.3	47.7	44.7	43.0	47.1	46.6	46.6
1500.0	1530.0	8.16	8.06	8.06	1530.0	49.1	46.5	44.0	42.4	42.8	42.9
1516.5	1546.5	8.12	8.12	8.12	1546.5	48.6	46.4	43.8	42.2	42.6	42.7
1642.7	1672.7	8.09	8.09	8.09	1672.7	43.9	42.4	40.7	41.9	42.2	42.4

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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)		
	+10	+13	+16	+10	+13	+16		+10	+13	+16
38.0	2.30	2.35	2.40	3.32	3.64	4.22	1.0	1.94	1.99	2.06
38.0	2.30	2.35	2.40	3.32	3.64	4.22	5.0	1.49	1.64	1.80
40.0	2.03	2.04	2.08	3.21	3.57	4.12	10.0	1.40	1.55	1.71
40.0	2.03	2.04	2.08	3.21	3.57	4.12	42.2	1.30	1.45	1.60
70.0	1.38	1.34	1.32	2.46	3.11	3.86	50.0	1.28	1.43	1.59
70.0	1.38	1.34	1.32	2.46	3.11	3.86	84.3	1.28	1.44	1.59
110.0	1.37	1.32	1.30	2.25	2.92	3.57	100.0	1.28	1.43	1.58
110.0	1.37	1.32	1.30	2.25	2.92	3.57	126.4	1.29	1.44	1.59
158.2	1.46	1.42	1.39	2.20	2.88	3.57	168.5	1.32	1.48	1.63
158.2	1.46	1.42	1.39	2.20	2.88	3.57	200.0	1.35	1.51	1.65
284.4	2.03	1.96	1.89	2.16	2.72	3.26	210.6	1.36	1.51	1.67
284.4	2.03	1.96	1.89	2.16	2.72	3.26	250.0	1.40	1.55	1.70
410.6	2.84	2.72	2.58	2.20	2.68	3.26	252.7	1.40	1.55	1.69
410.6	2.84	2.72	2.58	2.20	2.68	3.26	294.8	1.47	1.63	1.77
530.0	3.57	3.38	3.21	2.30	2.65	3.16	336.9	1.53	1.69	1.82
530.0	3.57	3.38	3.21	2.30	2.65	3.16	379.0	1.59	1.74	1.89
536.8	3.44	3.32	3.21	2.25	2.65	3.11	421.1	1.69	1.84	1.99
536.8	3.44	3.32	3.21	2.25	2.65	3.11	463.2	1.80	1.96	2.12
663.1	3.64	3.44	3.32	2.25	2.52	2.88	500.0	1.89	2.04	2.20
663.1	3.64	3.44	3.32	2.25	2.52	2.88	505.3	1.89	2.04	2.20
789.3	3.57	3.44	3.38	2.37	2.55	2.80				
789.3	3.57	3.44	3.38	2.37	2.55	2.80				
915.5	3.32	3.16	3.06	2.25	2.27	2.49				
915.5	3.32	3.16	3.06	2.25	2.27	2.49				
1030.0	3.44	3.32	3.16	2.30	2.30	2.43				
1030.0	3.44	3.32	3.16	2.30	2.30	2.43				
1041.7	3.26	3.06	2.96	2.37	2.35	2.49				
1041.7	3.26	3.06	2.96	2.37	2.35	2.49				
1167.9	3.01	2.84	2.68	2.30	2.18	2.27				
1167.9	3.01	2.84	2.68	2.30	2.18	2.27				
1294.1	2.65	2.43	2.27	2.03	1.92	1.96				
1294.1	2.65	2.43	2.27	2.03	1.92	1.96				
1420.3	2.52	2.30	2.16	1.91	1.78	1.84				
1420.3	2.52	2.30	2.16	1.91	1.78	1.84				
1530.0	2.65	2.43	2.25	1.77	1.69	1.76				
1530.0	2.65	2.43	2.25	1.77	1.69	1.76				
1546.5	2.61	2.40	2.25	1.76	1.66	1.77				
1546.5	2.61	2.40	2.25	1.76	1.66	1.77				
1672.7	2.61	2.40	2.23	1.69	1.64	1.81				
1672.7	2.61	2.40	2.23	1.69	1.64	1.81				