Frequency Mixer ADE-ED7938/1

Typical Performance Data

RF (MHz)	LO (MHz)	CONVERSION LOSS (dB) @LO (dBm)		
		+14	+17	+20
1.0	31.0	9.19	7.93	7.16
2.0	32.0	8.40	7.15	6.50
5.0	35.0	7.73	6.46	5.95
10.0	40.0	7.25	6.14	5.68
50.0	80.0	7.57	6.28	5.75
73.6	103.6	7.53	6.17	5.68
100.0	130.0	7.82	6.47	5.87
147.1	177.1	7.78	6.40	5.84
220.6	250.6	7.32	6.05	5.74
250.0	280.0	7.56	6.16	5.85
294.1	324.1	7.25	6.15	5.89
367.6	397.6	6.93	6.03	5.80
441.1	471.1	6.71	6.07	5.86
470.0	500.0	6.94	6.18	5.95
500.0	530.0	6.94	6.21	5.93
514.6	544.6	6.90	6.16	5.86
588.1	618.1	6.83	6.33	6.05
661.6	691.6	7.03	6.51	6.23
735.1	765.1	6.96	6.25	5.94
808.5	838.5	7.27	6.33	6.02
882.0	912.0	8.05	6.79	6.24
955.5	985.5	8.62	7.48	6.52
970.0	1000.0	8.94	7.84	6.91
1000.0	1030.0	9.33	8.28	7.31

LO (MHz)	LO-RF ISOLATION (dB) @LO (dBm)			LO-IF ISOLATION (dB) @LO (dBm)		
	+14	+17	+20	+14	+17	+20
31.0	64.3	66.3	68.2	63.9	68.9	71.9
32.0	64.0	65.9	67.5	63.7	68.4	71.1
35.0	63.9	65.6	67.9	62.3	66.6	70.4
40.0	63.0	64.8	67.1	60.8	65.1	69.5
80.0	57.3	59.3	61.3	54.7	58.5	62.8
103.6	54.9	57.0	59.0	52.3	56.0	61.0
130.0	52.9	55.0	57.1	49.8	52.7	56.7
177.1	50.5	52.5	55.1	47.0	50.2	52.6
250.6	47.2	49.5	52.6	43.6	45.2	48.9
280.0	46.3	48.8	51.6	42.5	43.7	47.8
324.1	44.5	47.5	50.4	40.6	41.8	45.9
397.6	43.2	46.1	48.8	37.7	40.2	44.1
471.1	42.4	44.6	46.9	35.9	38.4	41.8
500.0	42.1	44.4	46.5	35.4	38.0	41.2
530.0	42.0	44.6	47.2	34.8	37.9	41.5
544.6	41.7	44.3	46.8	34.5	37.7	41.6
618.1	40.9	43.5	46.4	33.0	35.7	39.8
691.6	40.3	42.7	44.9	32.2	34.1	36.0
765.1	39.1	41.4	44.1	31.5	32.5	34.1
838.5	38.5	40.9	43.6	32.4	33.5	34.6
912.0	37.2	40.2	42.8	32.0	35.1	37.1
985.5	35.7	38.9	42.3	30.5	33.9	38.2
1000.0	35.4	38.4	41.9	30.2	33.5	37.4
1030.0	34.8	37.4	40.8	29.8	32.4	35.0

Typical Performance Data

RF/LO (MHz)	RF VSWR (:1) @LO (dBm)			LO VSWR (:1) @LO (dBm)		
	+14	+17	+20	+14	+17	+20
31.0	2.01	1.96	1.96	1.75	1.09	1.54
32.0	1.64	1.56	1.54	1.73	1.09	1.52
35.0	1.45	1.30	1.25	1.74	1.09	1.56
40.0	1.41	1.21	1.14	1.76	1.09	1.53
80.0	1.35	1.14	1.03	1.68	1.11	1.51
103.6	1.35	1.13	1.02	1.71	1.13	1.53
130.0	1.30	1.11	1.02	1.74	1.18	1.57
177.1	1.30	1.08	1.06	1.73	1.23	1.62
250.6	1.27	1.04	1.09	1.81	1.26	1.67
280.0	1.24	1.02	1.09	1.73	1.26	1.60
324.1	1.18	1.01	1.11	1.80	1.30	1.71
397.6	1.13	1.05	1.14	1.73	1.27	1.70
471.1	1.08	1.08	1.15	1.59	1.26	1.67
500.0	1.09	1.11	1.18	1.62	1.30	1.82
530.0	1.09	1.12	1.21	1.57	1.28	1.80
544.6	1.09	1.12	1.22	1.51	1.27	1.74
618.1	1.11	1.15	1.22	1.49	1.33	1.89
691.6	1.13	1.19	1.26	1.41	1.41	2.04
765.1	1.13	1.21	1.26	1.31	1.44	2.03
838.5	1.18	1.19	1.23	1.19	1.43	2.04
912.0	1.38	1.32	1.33	1.19	1.54	2.14
985.5	1.66	1.58	1.55	1.23	1.70	2.37
1000.0	1.74	1.65	1.62	1.23	1.71	2.35
1030.0	1.91	1.82	1.77	1.26	1.78	2.43

IF (MHz)	IF VSWR (:1) @LO (dBm)		
	+14	+17	+20
0.1	3.11	2.49	1.99
0.2	3.06	2.46	1.96
0.5	3.26	2.65	2.10
1.0	3.44	2.72	2.16
5.0	3.32	2.65	2.12
10.0	3.38	2.68	2.12
30.0	3.11	2.58	2.06
50.0	3.01	2.52	2.03
100.0	3.01	2.43	1.97
150.1	2.88	2.37	1.94
200.1	2.84	2.32	1.89
250.0	2.84	2.30	1.89
300.1	2.80	2.30	1.88
350.1	2.72	2.23	1.84
400.1	2.61	2.18	1.80
450.1	2.52	2.10	1.75
500.0	2.46	2.06	1.71
600.0	2.40	2.04	1.70
700.0	2.37	2.03	1.70
800.0	2.23	1.92	1.64
850.0	2.16	1.88	1.61
900.0	2.14	1.87	1.60
950.0	2.18	1.91	1.62
1000.0	2.23	1.92	1.64