

Frequency Mixer

ADE-ED7907/1

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)		
		+7	+10	+13		+7	+10	+13	+7	+10	+13
2.0	32.0	7.83	7.23	7.03	32.0	64.1	65.5	66.2	75.8	74.7	74.1
5.0	35.0	7.00	6.50	6.30	35.0	64.0	65.7	66.3	73.0	74.5	72.7
10.0	40.0	6.82	6.32	6.12	40.0	63.0	64.3	65.1	72.5	72.8	71.5
50.0	80.0	6.89	6.49	6.19	80.0	57.4	58.8	59.7	67.1	68.2	68.0
100.0	130.0	6.90	6.40	6.20	130.0	52.4	53.7	54.6	62.9	63.9	62.6
197.2	227.2	6.91	6.41	6.31	227.2	48.2	49.5	50.8	54.8	54.2	55.8
295.7	325.7	6.66	6.36	6.26	325.7	45.4	46.9	48.5	47.1	48.6	50.4
394.2	424.2	6.76	6.46	6.26	424.2	43.1	44.9	46.3	43.5	45.5	47.0
492.7	522.7	6.74	6.34	6.24	522.7	41.4	43.1	44.5	40.7	42.3	43.4
500.0	530.0	6.78	6.38	6.28	530.0	41.2	42.9	44.4	40.3	42.1	43.2
591.1	621.1	6.81	6.51	6.31	621.1	40.0	41.7	43.3	38.7	40.4	41.3
689.6	719.6	6.85	6.45	6.15	719.6	40.3	42.1	43.3	39.1	40.8	41.2
750.0	780.0	6.94	6.64	6.34	780.0	40.5	42.5	43.9	39.7	41.2	41.3
788.1	818.1	6.90	6.60	6.40	818.1	40.3	42.0	43.0	39.3	40.3	40.2
886.6	916.6	7.01	6.61	6.31	916.6	38.9	40.7	41.8	36.4	36.0	35.5
985.1	1015.1	7.03	6.53	6.23	1015.1	37.3	39.0	40.0	33.0	32.5	32.0
1000.0	1030.0	7.05	6.55	6.25	1030.0	37.2	38.7	39.7	32.9	32.2	31.6
1083.6	1113.6	7.38	6.58	6.18	1113.6	35.5	36.9	37.4	32.7	31.7	30.7
1182.1	1212.1	7.84	6.64	6.04	1212.1	34.4	36.0	36.6	33.1	33.0	31.4
1280.6	1310.6	7.74	7.04	6.44	1310.6	32.2	33.7	34.7	32.1	32.3	31.5
1379.1	1409.1	7.58	6.98	6.58	1409.1	31.3	32.5	33.1	30.0	29.0	28.0
1470.0	1500.0	7.29	6.79	6.49	1500.0	30.2	31.1	30.8	27.9	25.7	24.4
1477.6	1507.6	7.37	6.77	6.47	1507.6	30.1	30.7	30.7	27.6	25.4	24.1
1500.0	1530.0	7.15	6.75	6.45	1530.0	29.8	30.2	30.0	26.4	24.4	23.3
1530.0	1560.0	7.26	6.76	6.46	1560.0	29.4	29.6	29.4	25.8	23.6	22.5
1576.0	1606.0	7.13	6.83	6.53	1606.0	28.7	28.7	28.5	24.4	22.8	22.0

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RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)		
	@LO (dBm)			@LO (dBm)				@LO (dBm)		
	+7	+10	+13	+7	+10	+13		+7	+10	+13
32.0	1.85	1.76	1.71	1.06	1.58	2.27	0.1	2.52	2.12	1.87
35.0	1.69	1.58	1.51	1.06	1.58	2.30	0.2	2.52	2.10	1.85
40.0	1.68	1.54	1.46	1.06	1.59	2.27	0.5	2.68	2.23	1.96
80.0	1.59	1.46	1.38	1.10	1.57	2.32	1.0	2.84	2.32	2.03
130.0	1.56	1.44	1.36	1.17	1.60	2.35	2.0	2.84	2.35	2.04
227.2	1.54	1.43	1.38	1.26	1.67	2.37	5.0	2.76	2.30	2.01
325.7	1.51	1.44	1.40	1.31	1.74	2.49	10.0	2.80	2.30	2.03
424.2	1.54	1.47	1.43	1.30	1.80	2.52	30.0	2.65	2.23	1.96
522.7	1.59	1.53	1.49	1.34	1.84	2.52	50.0	2.61	2.18	1.92
530.0	1.59	1.54	1.49	1.33	1.82	2.52	74.6	2.55	2.14	1.89
621.1	1.57	1.52	1.49	1.37	1.89	2.55	100.0	2.52	2.12	1.88
719.6	1.52	1.46	1.44	1.41	1.97	2.61	149.1	2.43	2.06	1.82
780.0	1.51	1.48	1.46	1.52	2.14	2.84	223.6	2.35	2.01	1.77
818.1	1.52	1.50	1.48	1.53	2.14	2.76	298.1	2.32	1.99	1.77
916.6	1.54	1.50	1.48	1.59	2.25	2.96	372.6	2.30	1.96	1.75
1015.1	1.47	1.42	1.40	1.70	2.40	3.16	447.1	2.18	1.88	1.68
1030.0	1.48	1.43	1.40	1.75	2.43	3.21	500.0	2.01	1.76	1.60
1113.6	1.45	1.35	1.32	1.91	2.58	3.32	521.6	2.04	1.77	1.60
1212.1	1.40	1.27	1.19	2.08	2.80	3.50	596.1	1.96	1.70	1.56
1310.6	1.30	1.22	1.15	2.23	2.96	3.79	670.6	1.92	1.69	1.56
1409.1	1.33	1.30	1.29	2.37	3.21	4.12	745.1	1.88	1.68	1.58
1500.0	1.51	1.52	1.52	2.49	3.44	4.32	819.5	1.84	1.67	1.59
1507.6	1.54	1.54	1.55	2.52	3.50	4.32	894.0	1.77	1.64	1.58
1530.0	1.59	1.59	1.60	2.68	3.64	4.64	968.5	1.75	1.60	1.56
1560.0	1.68	1.69	1.70	2.52	3.44	4.32	1000.0	1.77	1.60	1.55
1606.0	1.80	1.81	1.82	2.65	3.57	4.77	1490.0	1.19	1.11	1.17