

Frequency Mixer

ADE-ED7861/1

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
1.0	31.0	6.88	6.48	6.38	31.0	65.2	68.4	71.4	58.9	56.5	55.1
2.0	32.0	6.20	5.90	5.70	32.0	65.2	67.9	71.0	58.9	56.6	55.1
5.0	35.0	5.76	5.36	5.36	35.0	64.6	67.7	70.7	59.0	56.4	54.8
10.0	40.0	5.68	5.38	5.28	40.0	63.6	67.1	69.9	58.6	55.7	54.1
20.0	50.0	5.59	5.39	5.19	50.0	61.6	65.1	68.1	57.6	54.3	52.7
50.0	80.0	5.59	5.39	5.19	80.0	58.3	61.2	64.7	55.1	51.6	50.4
65.1	95.1	5.56	5.26	5.16	95.1	56.5	59.9	63.5	54.4	50.8	49.6
100.0	130.0	5.51	5.31	5.21	130.0	53.8	57.9	61.8	52.5	49.9	48.2
130.1	160.1	5.44	5.24	5.14	160.1	52.3	56.3	60.3	52.4	49.8	47.3
195.1	225.1	5.51	5.31	5.21	225.1	50.1	54.2	59.3	45.5	45.5	44.3
260.1	290.1	5.44	5.24	5.24	290.1	48.8	53.8	60.4	40.4	41.8	41.8
325.1	355.1	5.68	5.48	5.38	355.1	45.9	50.0	54.8	36.5	37.8	38.5
390.1	420.1	5.84	5.44	5.34	420.1	44.4	48.8	55.0	33.6	35.4	36.7
455.1	485.1	5.80	5.70	5.50	485.1	45.6	50.0	55.4	32.8	34.5	35.3
500.0	530.0	5.93	5.73	5.53	530.0	46.3	51.6	55.6	31.7	34.0	34.9
520.1	550.1	5.90	5.80	5.60	550.1	46.1	50.4	55.2	31.2	33.7	35.2
585.1	615.1	6.00	5.70	5.60	615.1	44.0	48.3	51.0	29.1	31.9	34.1
650.1	680.1	6.63	5.93	5.63	680.1	39.8	42.8	45.6	26.6	29.2	31.5
715.0	745.0	7.41	6.51	6.01	745.0	38.0	40.8	42.5	25.3	27.2	29.4
780.0	810.0	8.09	7.39	6.49	810.0	36.3	38.7	39.8	24.9	26.3	27.9
845.0	875.0	8.90	8.20	7.50	875.0	35.3	37.7	38.9	25.1	26.3	27.6
910.0	940.0	9.10	8.20	7.40	940.0	33.5	36.9	40.2	24.4	26.0	27.5
970.0	1000.0	8.59	7.69	7.29	1000.0	31.5	34.2	36.6	23.1	24.5	26.3
975.0	1005.0	8.47	7.67	7.27	1005.0	31.3	33.8	36.2	23.1	24.4	26.2
1000.0	1030.0	8.20	7.60	7.30	1030.0	30.3	32.4	34.8	22.6	24.1	25.8
1030.0	1060.0	8.29	7.79	7.59	1060.0	29.5	32.6	33.9	22.4	24.0	25.6
1040.0	1070.0	8.32	7.92	7.72	1070.0	29.1	30.9	33.3	22.6	24.0	25.5
1105.0	1135.0	8.83	8.53	8.33	1135.0	28.3	30.2	32.0	23.0	24.3	25.3

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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
31.0	1.76	1.75	1.76	1.59	2.49	3.71	0.1	1.69	1.40	1.23
32.0	1.44	1.41	1.42	1.59	2.49	3.71	0.2	1.67	1.38	1.21
35.0	1.25	1.20	1.19	1.59	2.55	3.71	0.5	1.73	1.42	1.26
40.0	1.21	1.12	1.10	1.57	2.55	3.79	1.0	1.77	1.46	1.29
50.0	1.19	1.09	1.04	1.58	2.52	3.64	2.0	1.78	1.46	1.29
80.0	1.17	1.07	1.00	1.60	2.49	3.64	5.0	1.76	1.44	1.27
95.1	1.17	1.06	1.01	1.59	2.49	3.71	10.0	1.76	1.44	1.27
130.0	1.16	1.05	1.03	1.56	2.58	3.79	30.0	1.75	1.43	1.27
160.1	1.15	1.05	1.04	1.58	2.58	3.79	50.0	1.73	1.43	1.27
225.1	1.13	1.05	1.05	1.65	2.61	3.95	100.0	1.75	1.45	1.29
290.1	1.13	1.08	1.09	1.69	2.58	3.79	150.1	1.77	1.48	1.32
355.1	1.14	1.10	1.11	1.75	2.68	3.86	200.1	1.80	1.53	1.38
420.1	1.18	1.17	1.20	1.84	2.72	3.86	250.1	1.82	1.58	1.43
485.1	1.20	1.21	1.26	1.88	2.68	3.64	300.1	1.85	1.61	1.49
530.0	1.19	1.22	1.26	1.97	2.84	3.95	350.1	1.85	1.64	1.53
550.1	1.18	1.21	1.26	1.97	2.68	3.71	400.1	1.85	1.66	1.56
615.1	1.19	1.22	1.25	2.20	2.88	4.03	450.1	1.84	1.66	1.57
680.1	1.32	1.28	1.29	2.35	3.06	4.03	500.0	1.82	1.66	1.58
745.0	1.60	1.51	1.48	2.32	3.01	3.79	550.0	1.82	1.67	1.60
810.0	1.96	1.85	1.78	2.43	3.21	4.12	600.0	1.82	1.68	1.62
875.0	2.37	2.27	2.20	2.55	3.32	4.32	650.0	1.85	1.70	1.64
940.0	2.76	2.61	2.49	2.35	3.06	3.95	700.0	1.82	1.69	1.64
1000.0	3.21	3.01	2.96	2.30	2.96	4.03	750.0	1.77	1.64	1.60
1005.0	3.26	3.11	3.01	2.30	3.01	3.86	800.0	1.70	1.58	1.53
1030.0	3.44	3.32	3.21	2.40	3.16	4.32	850.0	1.64	1.51	1.46
1060.0	3.64	3.50	3.38	2.61	3.50	4.89	900.0	1.60	1.44	1.40
1070.0	3.50	3.44	3.38	2.72	3.38	4.53	950.0	1.60	1.43	1.36
1135.0	3.79	3.71	3.64	3.21	3.86	5.03				