

Frequency Mixer

ADE-92LH+

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
200.1	270.1	11.48	11.36	10.96	200.1	26.09	25.85	25.63	16.87	17.12	17.30
220.1	290.1	10.44	10.25	9.91	220.1	25.00	24.94	24.86	16.21	16.51	16.71
240.1	310.1	9.30	9.10	8.72	240.1	24.47	24.47	24.38	16.42	16.75	16.98
260.1	330.1	8.18	8.11	7.68	260.1	24.69	24.70	24.59	17.19	17.55	17.80
280.1	350.1	7.55	7.53	7.12	280.1	25.55	25.57	25.47	18.29	18.65	18.93
300.1	370.1	7.11	7.10	6.75	300.1	26.95	26.97	26.91	19.47	19.88	20.17
320.1	390.1	6.86	6.82	6.54	320.1	28.78	28.84	28.79	20.88	21.35	21.71
340.1	410.1	6.62	6.57	6.32	340.1	31.40	31.60	31.67	22.34	22.88	23.31
360.1	430.1	6.42	6.40	6.18	360.1	33.71	33.92	33.91	23.56	24.12	24.58
380.1	450.1	6.30	6.29	6.09	380.1	35.64	35.83	35.69	24.60	25.20	25.72
400.1	470.1	6.21	6.20	6.00	400.1	37.48	37.63	37.43	25.56	26.19	26.72
420.1	490.1	6.15	6.13	5.92	420.1	38.62	38.84	38.68	26.64	27.31	27.85
440.1	510.1	6.08	6.06	5.88	440.1	39.79	40.14	40.22	27.62	28.29	28.76
460.1	530.1	6.09	6.09	5.94	460.1	40.35	40.75	40.88	28.38	29.00	29.37
480.1	550.1	6.11	6.11	6.00	480.1	40.61	41.06	41.36	28.88	29.45	29.68
500.1	570.1	6.09	6.09	6.01	500.1	41.11	41.55	41.85	29.20	29.72	29.78
520.1	590.1	6.10	6.08	5.99	520.1	41.24	41.76	42.10	29.37	29.84	29.76
540.1	610.1	6.15	6.14	6.05	540.1	41.45	42.22	42.69	29.35	29.73	29.57
560.1	630.1	6.27	6.24	6.21	560.1	41.52	42.30	42.85	29.09	29.38	29.14
580.1	650.1	6.33	6.34	6.30	580.1	41.58	42.30	43.04	28.40	28.73	28.45
600.1	670.1	6.39	6.42	6.39	600.1	41.39	42.12	42.78	27.41	27.81	27.50
620.1	690.1	6.48	6.51	6.50	620.1	40.70	41.47	42.03	26.59	27.01	26.70
640.1	710.1	6.59	6.64	6.62	640.1	40.20	41.06	41.53	25.84	26.29	26.02
660.1	730.1	6.67	6.73	6.71	660.1	39.56	40.29	40.69	25.24	25.70	25.42
680.1	750.1	6.78	6.82	6.79	680.1	38.77	39.49	39.86	24.68	25.15	24.84
700.1	770.1	6.83	6.95	6.92	700.1	38.14	38.81	39.09	24.23	24.73	24.39
720.1	790.1	6.96	7.04	7.03	720.1	37.37	38.03	38.11	23.88	24.42	24.12
740.1	810.1	7.07	7.17	7.14	740.1	36.93	37.51	37.37	23.71	24.27	24.01
760.1	830.1	7.20	7.29	7.27	760.1	36.55	37.23	37.04	23.59	24.14	23.94
780.1	850.1	7.27	7.33	7.29	780.1	36.62	37.29	37.16	23.49	24.06	23.88
800.1	870.1	7.27	7.33	7.27	800.1	36.76	37.47	37.42	23.48	24.06	23.89
820.1	890.1	7.38	7.40	7.32	820.1	37.21	38.06	38.07	23.62	24.21	24.08
840.1	910.1	7.50	7.51	7.42	840.1	38.19	39.25	39.44	23.88	24.48	24.42
860.1	930.1	7.63	7.63	7.54	860.1	38.97	40.06	40.32	24.20	24.84	24.85
880.1	950.1	7.74	7.71	7.60	880.1	38.79	39.68	39.89	24.61	25.27	25.34
900.1	970.1	7.89	7.84	7.74	900.1	38.48	39.30	39.54	24.99	25.67	25.82
920.1	990.1	8.06	7.99	7.86	920.1	38.20	38.98	39.29	25.27	25.95	26.19
940.1	1010.1	8.19	8.11	7.96	940.1	38.06	38.66	39.06	25.35	25.96	26.22
960.1	1030.1	8.35	8.25	8.09	960.1	37.99	38.44	38.94	25.39	25.90	26.11
980.1	1050.1	8.51	8.38	8.20	980.1	37.88	38.32	38.87	25.64	26.02	26.19
1000.1	1070.1	8.72	8.58	8.40	1000.1	38.06	38.47	39.05	26.01	26.34	26.46
1020.1	1090.1	8.89	8.74	8.55	1020.1	38.21	38.69	39.19	26.52	26.75	26.84
1040.1	1110.1	9.06	8.90	8.69	1040.1	38.49	39.04	39.42	27.07	27.28	27.35
1060.1	1130.1	9.23	9.06	8.84	1060.1	38.76	39.19	39.53	27.66	27.86	27.87
1080.1	1150.1	9.46	9.27	9.04	1080.1	39.27	39.63	40.03	28.14	28.35	28.32
1100.1	1170.1	9.73	9.52	9.28	1100.1	39.99	40.10	40.56	28.60	28.85	28.76
1120.1	1190.1	9.92	9.71	9.48	1120.1	40.74	40.45	40.85	29.09	29.37	29.26
1140.1	1210.1	10.11	9.88	9.64	1140.1	41.50	40.82	41.22	29.64	29.96	29.81
1160.1	1230.1	10.32	10.07	9.81	1160.1	41.88	41.39	41.68	30.27	30.44	30.33
1180.1	1250.1	10.55	10.30	10.03	1180.1	42.37	42.25	42.34	30.76	30.81	30.74
1200.1	1270.1	10.80	10.56	10.29	1200.1	42.71	42.60	42.58	31.21	31.31	31.22

REV. X2
ADE-92LH+
110112
Page 1 of 3



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Frequency Mixer

ADE-92LH+

Typical Performance Data

RF (MHz)	LO (MHz)	IP3 Input (dBm)		
		@LO (dBm)	@LO (dBm)	@LO (dBm)
		+7	+10	+13
200.1	270.1	15.94	17.93	22.67
220.1	290.1	22.04	18.62	27.97
240.1	310.1	18.34	16.96	21.09
260.1	330.1	11.84	16.15	17.47
280.1	350.1	11.37	16.68	18.14
300.1	370.1	12.88	17.63	19.87
320.1	390.1	14.07	18.27	21.27
340.1	410.1	14.24	18.76	21.59
360.1	430.1	14.66	19.16	21.36
380.1	450.1	15.29	19.39	21.42
400.1	470.1	15.22	19.62	21.44
420.1	490.1	15.08	19.85	21.45
440.1	510.1	15.46	20.10	21.52
460.1	530.1	16.35	20.67	22.35
480.1	550.1	18.07	21.27	23.21
500.1	570.1	21.58	22.30	24.42
520.1	590.1	22.04	22.90	25.06
540.1	610.1	19.98	23.42	25.17
560.1	630.1	19.53	24.31	25.72
580.1	650.1	21.23	25.68	27.70
600.1	670.1	23.28	27.57	31.09
620.1	690.1	25.20	28.71	35.77
640.1	710.1	29.29	28.63	35.96
660.1	730.1	29.37	28.46	33.54
680.1	750.1	27.42	28.30	36.11
700.1	770.1	23.91	26.13	31.27
720.1	790.1	21.36	24.55	27.73
740.1	810.1	20.70	24.34	26.18
760.1	830.1	22.99	25.79	26.81
780.1	850.1	27.33	29.27	29.23
800.1	870.1	26.02	28.20	31.98
820.1	890.1	28.03	27.96	33.52
840.1	910.1	30.06	28.53	33.03
860.1	930.1	27.58	28.36	34.97
880.1	950.1	25.41	27.70	35.44
900.1	970.1	23.43	27.45	33.43
920.1	990.1	23.96	27.57	30.99
940.1	1010.1	27.47	28.67	31.76
960.1	1030.1	30.13	28.51	35.22
980.1	1050.1	25.56	27.25	36.31
1000.1	1070.1	23.10	25.98	31.35
1020.1	1090.1	21.52	25.24	29.45
1040.1	1110.1	20.40	24.46	27.90
1060.1	1130.1	19.31	23.68	25.81
1080.1	1150.1	18.32	23.10	24.00
1100.1	1170.1	17.54	22.83	22.87
1120.1	1190.1	17.25	22.85	22.28
1140.1	1210.1	17.35	23.62	22.18
1160.1	1230.1	17.87	26.84	22.55
1180.1	1250.1	18.90	25.96	23.72
1200.1	1270.1	18.85	21.24	25.72

REV. X2
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Page 2 of 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)		
	+7	+10	+13	+7	+10	+13		+7	+10	+13
280.1	2.20	2.18	2.19	11.09	10.96	10.96	0.3	1.07	1.03	1.04
300.1	2.06	2.08	2.09	13.29	13.19	13.19	15.7	1.07	1.05	1.06
320.1	1.98	2.03	2.03	15.53	15.67	15.53	31.1	1.10	1.09	1.10
340.1	1.92	1.96	1.99	17.75	17.93	17.75	46.4	1.13	1.13	1.13
360.1	1.90	1.95	2.02	19.76	19.76	19.54	61.8	1.17	1.17	1.16
380.1	1.89	1.95	2.04	21.20	21.20	20.95	77.2	1.22	1.23	1.22
420.1	1.87	1.97	2.06	23.18	23.49	23.18	92.6	1.27	1.29	1.29
440.1	1.89	1.98	2.09	23.81	24.14	23.81	107.9	1.33	1.35	1.36
480.1	1.99	2.10	2.26	22.58	22.58	22.29	123.3	1.39	1.41	1.44
500.1	2.01	2.15	2.30	21.20	21.20	20.95	138.7	1.45	1.46	1.50
540.1	2.08	2.21	2.36	17.75	18.11	17.57	154.1	1.53	1.55	1.58
560.1	2.19	2.30	2.49	15.96	16.26	15.81	169.4	1.61	1.64	1.66
600.1	2.35	2.49	2.65	12.09	12.26	12.01	184.8	1.69	1.72	1.75
620.1	2.43	2.58	2.74	10.37	10.56	10.31	200.2	1.73	1.77	1.82
660.1	2.59	2.69	2.89	7.63	7.70	7.50	215.6	1.70	1.73	1.81
680.1	2.66	2.79	2.93	6.53	6.56	6.39	231.0	1.64	1.65	1.75
720.1	2.77	2.95	3.08	4.83	4.86	4.74	246.3	1.55	1.56	1.67
740.1	2.83	2.98	3.16	4.27	4.28	4.19	261.7	1.48	1.49	1.59
780.1	2.87	3.06	3.16	3.51	3.49	3.45	277.1	1.45	1.46	1.56
800.1	2.84	3.02	3.13	3.30	3.27	3.24	292.5	1.44	1.45	1.54
840.1	2.94	3.07	3.20	3.14	3.11	3.10	307.8	1.44	1.45	1.54
860.1	3.04	3.18	3.28	3.18	3.13	3.13	323.2	1.45	1.47	1.55
900.1	3.18	3.31	3.43	3.37	3.31	3.31	338.6	1.48	1.50	1.58
920.1	3.25	3.34	3.49	3.50	3.44	3.45	354.0	1.52	1.54	1.63
960.1	3.45	3.52	3.62	3.81	3.74	3.76	369.3	1.56	1.59	1.67
980.1	3.52	3.58	3.71	3.98	3.91	3.93	384.7	1.60	1.63	1.71
1020.1	3.70	3.70	3.90	4.31	4.25	4.28	400.1	1.64	1.67	1.75
1040.1	3.81	3.80	3.99	4.46	4.41	4.43	415.5	1.68	1.71	1.80
1080.1	4.01	4.00	4.24	4.75	4.68	4.72	430.9	1.74	1.77	1.87
1100.1	4.11	4.09	4.32	4.91	4.86	4.88	446.2	1.79	1.82	1.93
1140.1	4.37	4.36	4.51	5.10	5.04	5.07	461.6	1.82	1.85	1.97
1160.1	4.48	4.48	4.68	5.20	5.14	5.16	477.0	1.85	1.88	2.01
1200.1	4.70	4.75	4.89	5.36	5.31	5.33	492.4	1.87	1.91	2.04
							507.7	1.91	1.96	2.08
							523.1	1.97	2.03	2.16
							538.5	2.03	2.08	2.23
							553.9	2.07	2.10	2.27
							569.2	2.10	2.13	2.31
							584.6	2.13	2.16	2.34
							600.0	2.17	2.20	2.37