

Frequency Mixer

ADE-92MH+

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
200.1	270.1	11.36	10.96	10.69	200.1	25.85	25.63	25.56	17.12	17.30	17.49
220.1	290.1	10.25	9.91	9.69	220.1	24.94	24.86	24.81	16.51	16.71	16.89
240.1	310.1	9.10	8.72	8.49	240.1	24.47	24.38	24.21	16.75	16.98	17.07
260.1	330.1	8.11	7.68	7.36	260.1	24.70	24.59	24.49	17.55	17.80	17.99
280.1	350.1	7.53	7.12	6.87	280.1	25.57	25.47	25.39	18.65	18.93	19.17
300.1	370.1	7.10	6.75	6.52	300.1	26.97	26.91	26.90	19.88	20.17	20.42
320.1	390.1	6.82	6.54	6.34	320.1	28.84	28.79	28.80	21.35	21.71	22.00
340.1	410.1	6.57	6.32	6.15	340.1	31.60	31.67	32.18	22.88	23.31	23.66
360.1	430.1	6.40	6.18	6.04	360.1	33.92	33.91	34.06	24.12	24.58	24.95
380.1	450.1	6.29	6.09	6.00	380.1	35.83	35.69	35.78	25.20	25.72	26.19
400.1	470.1	6.20	6.00	5.91	400.1	37.63	37.43	37.65	26.19	26.72	27.24
420.1	490.1	6.13	5.92	5.82	420.1	38.84	38.68	38.99	27.31	27.85	28.41
440.1	510.1	6.06	5.88	5.78	440.1	40.14	40.22	41.38	28.29	28.76	29.29
460.1	530.1	6.09	5.94	5.87	460.1	40.75	40.88	41.42	29.00	29.37	29.85
480.1	550.1	6.11	6.00	5.96	480.1	41.06	41.36	42.38	29.45	29.68	30.06
500.1	570.1	6.09	6.01	5.99	500.1	41.55	41.85	43.05	29.72	29.78	30.08
520.1	590.1	6.08	5.99	5.96	520.1	41.76	42.10	43.35	29.84	29.76	29.98
540.1	610.1	6.14	6.05	6.02	540.1	42.22	42.69	44.05	29.73	29.57	29.75
560.1	630.1	6.24	6.21	6.19	560.1	42.30	42.85	43.93	29.38	29.14	29.25
580.1	650.1	6.34	6.30	6.30	580.1	42.30	43.04	44.05	28.73	28.45	28.52
600.1	670.1	6.42	6.39	6.39	600.1	42.12	42.78	43.61	27.81	27.50	27.67
620.1	690.1	6.51	6.50	6.51	620.1	41.47	42.03	42.97	27.01	26.70	26.86
640.1	710.1	6.64	6.62	6.64	640.1	41.06	41.53	42.48	26.29	26.02	26.13
660.1	730.1	6.73	6.71	6.72	660.1	40.29	40.69	41.42	25.70	25.42	25.54
680.1	750.1	6.82	6.79	6.80	680.1	39.49	39.86	40.54	25.15	24.84	24.92
700.1	770.1	6.95	6.92	6.91	700.1	38.81	39.09	39.72	24.73	24.39	24.48
720.1	790.1	7.04	7.03	7.07	720.1	38.03	38.11	38.43	24.42	24.12	24.24
740.1	810.1	7.17	7.14	7.20	740.1	37.51	37.37	37.60	24.27	24.01	24.16
760.1	830.1	7.29	7.27	7.32	760.1	37.23	37.04	37.27	24.14	23.94	24.10
780.1	850.1	7.33	7.29	7.35	780.1	37.29	37.16	37.50	24.06	23.88	24.05
800.1	870.1	7.33	7.27	7.30	800.1	37.47	37.42	37.87	24.06	23.89	24.09
820.1	890.1	7.40	7.32	7.35	820.1	38.06	38.07	38.61	24.21	24.08	24.28
840.1	910.1	7.51	7.42	7.45	840.1	39.25	39.44	40.21	24.48	24.42	24.66
860.1	930.1	7.63	7.54	7.55	860.1	40.06	40.32	41.04	24.84	24.85	25.16
880.1	950.1	7.71	7.60	7.62	880.1	39.68	39.89	40.50	25.27	25.34	25.72
900.1	970.1	7.84	7.74	7.73	900.1	39.30	39.54	40.31	25.67	25.82	26.25
920.1	990.1	7.99	7.86	7.85	920.1	38.98	39.29	40.25	25.95	26.19	26.68
940.1	1010.1	8.11	7.96	7.93	940.1	38.66	39.06	40.06	25.96	26.22	26.73
960.1	1030.1	8.25	8.09	8.05	960.1	38.44	38.94	39.98	25.90	26.11	26.58
980.1	1050.1	8.38	8.20	8.15	980.1	38.32	38.87	40.03	26.02	26.19	26.60
1000.1	1070.1	8.58	8.40	8.33	1000.1	38.47	39.05	40.37	26.34	26.46	26.82
1020.1	1090.1	8.74	8.55	8.47	1020.1	38.69	39.19	40.56	26.75	26.84	27.13
1040.1	1110.1	8.90	8.69	8.60	1040.1	39.04	39.42	40.81	27.28	27.35	27.60
1060.1	1130.1	9.06	8.84	8.74	1060.1	39.19	39.53	40.75	27.86	27.87	28.14
1080.1	1150.1	9.27	9.04	8.93	1080.1	39.63	40.03	41.17	28.35	28.32	28.59
1100.1	1170.1	9.52	9.28	9.18	1100.1	40.10	40.56	41.79	28.85	28.76	28.99
1120.1	1190.1	9.71	9.48	9.37	1120.1	40.45	40.85	41.65	29.37	29.26	29.48
1140.1	1210.1	9.88	9.64	9.53	1140.1	40.82	41.22	41.74	29.96	29.81	30.06
1160.1	1230.1	10.07	9.81	9.68	1160.1	41.39	41.68	41.68	30.44	30.33	30.65
1180.1	1250.1	10.30	10.03	9.88	1180.1	42.25	42.34	42.15	30.81	30.74	31.08
1200.1	1270.1	10.56	10.29	10.15	1200.1	42.60	42.58	42.38	31.31	31.22	31.48

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Frequency Mixer

ADE-92MH+

Typical Performance Data

LO (MHz)	RF (MHz)	IP3 Input (dBm)		
		@LO (dBm)	@LO (dBm)	@LO (dBm)
		+10	+13	+16
270.1	200.1	17.93	22.67	24.21
290.1	220.1	18.62	27.97	28.42
310.1	240.1	16.96	21.09	25.22
330.1	260.1	16.15	17.47	18.62
350.1	280.1	16.68	18.14	19.07
370.1	300.1	17.63	19.87	22.14
390.1	320.1	18.27	21.27	23.95
410.1	340.1	18.76	21.59	23.79
430.1	360.1	19.16	21.36	23.09
450.1	380.1	19.39	21.42	23.30
470.1	400.1	19.62	21.44	23.22
490.1	420.1	19.85	21.45	23.28
510.1	440.1	20.10	21.52	23.23
530.1	460.1	20.67	22.35	24.34
550.1	480.1	21.27	23.21	25.08
570.1	500.1	22.30	24.42	25.97
590.1	520.1	22.90	25.06	27.00
610.1	540.1	23.42	25.17	27.27
630.1	560.1	24.31	25.72	27.70
650.1	580.1	25.68	27.70	28.99
670.1	600.1	27.57	31.09	33.07
690.1	620.1	28.71	35.77	38.52
710.1	640.1	28.63	35.96	36.99
730.1	660.1	28.46	33.54	33.66
750.1	680.1	28.30	36.11	32.85
770.1	700.1	26.13	31.27	31.94
790.1	720.1	24.55	27.73	29.90
810.1	740.1	24.34	26.18	28.46
830.1	760.1	25.79	26.81	28.76
850.1	780.1	29.27	29.23	30.21
870.1	800.1	28.20	31.98	31.63
890.1	820.1	27.96	33.52	32.39
910.1	840.1	28.53	33.03	32.20
930.1	860.1	28.36	34.97	34.61
950.1	880.1	27.70	35.44	38.74
970.1	900.1	27.45	33.43	34.79
990.1	920.1	27.57	30.99	31.60
1010.1	940.1	28.67	31.76	31.62
1030.1	960.1	28.51	35.22	32.71
1050.1	980.1	27.25	36.31	32.36
1070.1	1000.1	25.98	31.35	31.61
1090.1	1020.1	25.24	29.45	31.63
1110.1	1040.1	24.46	27.90	32.50
1130.1	1060.1	23.68	25.81	32.00
1150.1	1080.1	23.10	24.00	27.52
1170.1	1100.1	22.83	22.87	24.95
1190.1	1120.1	22.85	22.28	23.68
1210.1	1140.1	23.62	22.18	23.34
1230.1	1160.1	26.84	22.55	23.55
1250.1	1180.1	25.96	23.72	24.25
1270.1	1200.1	21.24	25.72	25.11

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Frequency Mixer

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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
280.1	2.18	2.19	2.17	10.96	10.96	10.62	0.3	1.03	1.04	1.12
300.1	2.08	2.09	2.12	13.19	13.19	12.80	15.7	1.05	1.06	1.10
320.1	2.03	2.03	2.08	15.67	15.53	15.26	31.1	1.09	1.10	1.13
340.1	1.96	1.99	2.05	17.93	17.75	17.57	46.4	1.13	1.13	1.14
360.1	1.95	2.02	2.07	19.76	19.54	19.11	61.8	1.17	1.16	1.17
380.1	1.95	2.04	2.12	21.20	20.95	20.45	77.2	1.23	1.22	1.22
420.1	1.97	2.06	2.19	23.49	23.18	22.87	92.6	1.29	1.29	1.30
440.1	1.98	2.09	2.22	24.14	23.81	23.81	107.9	1.35	1.36	1.39
480.1	2.10	2.26	2.37	22.58	22.29	22.29	123.3	1.41	1.44	1.46
500.1	2.15	2.30	2.44	21.20	20.95	20.95	138.7	1.46	1.50	1.51
540.1	2.21	2.36	2.48	18.11	17.57	17.93	154.1	1.55	1.58	1.57
560.1	2.30	2.49	2.58	16.26	15.81	16.11	169.4	1.64	1.66	1.67
600.1	2.49	2.65	2.81	12.26	12.01	12.09	184.8	1.72	1.75	1.80
620.1	2.58	2.74	2.92	10.56	10.31	10.50	200.2	1.77	1.82	1.94
660.1	2.69	2.89	3.00	7.70	7.50	7.76	215.6	1.73	1.81	1.97
680.1	2.79	2.93	3.05	6.56	6.39	6.58	231.0	1.65	1.75	1.89
720.1	2.95	3.08	3.26	4.86	4.74	4.89	246.3	1.56	1.67	1.76
740.1	2.98	3.16	3.30	4.28	4.19	4.32	261.7	1.49	1.59	1.65
780.1	3.06	3.16	3.34	3.49	3.45	3.52	277.1	1.46	1.56	1.61
800.1	3.02	3.13	3.32	3.27	3.24	3.31	292.5	1.45	1.54	1.62
840.1	3.07	3.20	3.34	3.11	3.10	3.15	307.8	1.45	1.54	1.65
860.1	3.18	3.28	3.41	3.13	3.13	3.16	323.2	1.47	1.55	1.69
900.1	3.31	3.43	3.60	3.31	3.31	3.35	338.6	1.50	1.58	1.73
920.1	3.34	3.49	3.65	3.44	3.45	3.48	354.0	1.54	1.63	1.77
960.1	3.52	3.62	3.78	3.74	3.76	3.77	369.3	1.59	1.67	1.79
980.1	3.58	3.71	3.89	3.91	3.93	3.94	384.7	1.63	1.71	1.82
1020.1	3.70	3.90	4.03	4.25	4.28	4.27	400.1	1.67	1.75	1.85
1040.1	3.80	3.99	4.09	4.41	4.43	4.41	415.5	1.71	1.80	1.92
1080.1	4.00	4.24	4.33	4.68	4.72	4.70	430.9	1.77	1.87	2.02
1100.1	4.09	4.32	4.43	4.86	4.88	4.84	446.2	1.82	1.93	2.10
1140.1	4.36	4.51	4.66	5.04	5.07	5.06	461.6	1.85	1.97	2.14
1160.1	4.48	4.68	4.86	5.14	5.16	5.14	477.0	1.88	2.01	2.15
1200.1	4.75	4.89	5.16	5.31	5.33	5.33	492.4	1.91	2.04	2.17
							507.7	1.96	2.08	2.23
							523.1	2.03	2.16	2.34
							538.5	2.08	2.23	2.44
							553.9	2.10	2.27	2.48
							569.2	2.13	2.31	2.51
							584.6	2.16	2.34	2.52
							600.0	2.20	2.37	2.54