

Frequency Mixer

ADE-2M+

Typical Performance Data

RF (MHz)	LO (MHz)	CONVERSION LOSS (dB)			LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			LO (MHz)	RF (MHz)	IP3 Input (dBm)
		@LO (dBm)				@LO (dBm)			@LO (dBm)					@LO (dBm)
		+4	+7	+10		+4	+7	+10	+4	+7	+10			+7
5.1	35.1	7.74	7.33	7.14	35.1	77.0	76.6	76.3	71.4	70.4	69.2	35.1	5.0	21.9
20.1	50.1	7.21	6.80	6.66	50.1	65.9	64.8	64.1	61.8	59.5	57.9	50.1	20.1	20.9
30.2	60.2	7.33	6.89	6.70	60.2	61.5	60.4	59.6	56.8	55.1	53.7	60.2	30.2	18.9
70.4	100.4	7.32	6.95	6.72	100.4	54.4	53.2	52.3	52.0	48.8	47.6	100.4	70.4	20.9
90.6	120.6	7.31	6.89	6.73	120.6	51.0	51.8	50.7	48.5	47.2	45.8	120.6	90.6	19.5
100.0	130.0	7.29	6.87	6.72	130.0	49.8	50.8	49.4	46.6	46.1	44.7	130.0	100.0	19.0
171.0	201.0	7.25	6.85	6.74	201.0	47.0	46.1	45.7	46.1	43.4	41.5	201.0	171.0	18.9
211.2	241.2	7.16	6.86	6.70	241.2	45.6	44.8	44.1	44.9	42.2	40.2	241.2	211.2	19.7
251.5	281.5	7.22	6.92	6.73	281.5	44.1	43.4	42.8	44.0	41.4	39.1	281.5	251.5	19.5
271.6	301.6	7.18	6.93	6.74	301.6	43.7	42.8	42.3	43.9	40.7	38.7	301.6	271.6	18.1
352.0	382.0	7.17	6.90	6.73	382.0	41.6	40.8	40.3	41.5	39.0	37.1	382.0	352.0	19.3
392.2	422.2	7.16	6.90	6.72	422.2	40.6	39.9	39.5	40.5	38.4	36.7	422.2	392.2	18.2
412.4	442.4	7.19	6.94	6.71	442.4	40.1	39.7	39.1	39.4	37.7	35.9	442.4	412.4	19.7
432.5	462.5	7.18	6.92	6.73	462.5	39.8	39.3	38.8	39.0	37.3	35.6	462.5	432.5	18.2
452.6	482.6	7.23	6.93	6.76	482.6	39.3	38.9	38.5	38.5	37.0	35.3	482.6	452.6	18.3
500.0	530.0	7.19	6.90	6.74	530.0	38.7	38.4	38.0	37.1	36.3	35.0	530.0	500.0	17.4
533.0	563.0	7.26	6.95	6.78	563.0	37.8	37.4	37.3	36.0	35.1	34.0	563.0	533.0	24.6
593.4	623.4	7.29	6.98	6.79	623.4	36.7	36.5	36.4	34.3	34.1	33.2	623.4	593.4	18.0
613.5	643.5	7.31	6.98	6.78	643.5	36.5	36.3	36.2	33.5	33.3	32.7	643.5	613.5	15.0
633.6	663.6	7.31	6.99	6.77	663.6	36.1	35.9	35.8	33.1	32.9	32.4	663.6	633.6	13.6
714.0	744.0	7.39	7.08	6.86	744.0	35.1	34.9	34.8	31.1	31.0	30.5	744.0	714.0	24.3
734.2	764.2	7.43	7.18	6.92	764.2	34.8	34.7	34.6	30.7	30.6	30.1	764.2	734.2	21.3
774.4	804.4	7.42	7.13	6.93	804.4	34.6	34.4	34.3	30.0	30.0	29.7	804.4	774.4	17.5
794.5	824.5	7.50	7.19	7.02	824.5	34.3	34.2	34.1	29.6	29.6	29.3	824.5	794.5	18.4
814.6	844.6	7.53	7.24	7.03	844.6	34.0	33.8	33.6	29.2	29.1	28.9	844.6	814.6	16.9
895.0	925.0	7.56	7.23	6.95	925.0	33.6	33.4	33.2	27.8	28.2	27.8	925.0	895.0	25.1
915.2	945.2	7.60	7.21	6.96	945.2	33.5	33.2	33.0	27.3	27.7	27.4	945.2	915.2	20.2
955.4	985.4	7.75	7.20	6.95	985.4	33.0	32.8	32.5	26.5	27.0	26.6	985.4	955.4	15.0
975.5	1005.5	7.80	7.25	6.93	1005.5	33.0	32.8	32.6	26.0	26.4	26.2	1005.5	975.5	13.8
995.6	1025.6	7.92	7.32	7.00	1025.6	32.6	32.4	32.1	25.7	26.0	25.8	1025.6	995.6	14.7
1000.0	1030.0	7.92	7.31	6.98	1030.0	32.7	32.4	32.2	25.6	25.9	25.7	1030.0	1000.0	13.7
1096.2	1126.2	8.40	7.78	7.26	1126.2	31.7	31.7	31.5	23.8	24.4	24.2	1126.2	1096.2	12.0
1136.4	1166.4	8.55	7.90	7.34	1166.4	31.3	31.3	31.2	23.1	23.9	23.9	1166.4	1136.4	12.2
1156.5	1186.5	8.65	8.02	7.47	1186.5	31.2	31.2	31.3	22.9	23.7	23.9	1186.5	1156.5	12.0
1176.6	1206.6	8.76	8.09	7.55	1206.6	31.1	31.1	31.0	22.5	23.4	23.6	1206.6	1176.6	11.5
1237.0	1267.0	8.96	8.38	7.81	1267.0	31.0	31.0	31.0	21.4	22.2	22.9	1267.0	1237.0	11.7
1277.2	1307.2	9.13	8.57	8.02	1307.2	30.9	30.9	30.9	20.7	21.5	22.0	1307.2	1277.2	11.9
1317.4	1347.4	9.23	8.68	8.12	1347.4	31.1	31.2	31.1	20.1	20.8	21.2	1347.4	1317.4	11.2
1337.5	1367.5	9.24	8.74	8.19	1367.5	31.1	31.2	31.3	19.9	20.5	20.9	1367.5	1337.5	10.5
1418.0	1448.0	9.38	8.92	8.46	1448.0	31.2	31.4	31.5	19.1	20.0	20.4	1448.0	1418.0	10.4
1458.2	1488.2	9.50	8.99	8.56	1488.2	31.6	31.7	31.8	18.7	19.7	20.1	1488.2	1458.2	10.9
1498.4	1528.4	9.59	9.04	8.59	1528.4	32.0	32.1	32.2	18.1	19.3	19.8	1528.4	1498.4	12.0
1518.5	1548.5	9.60	9.01	8.55	1548.5	32.4	32.5	32.6	17.8	19.1	19.6	1548.5	1518.5	12.6
1538.6	1568.6	9.60	8.98	8.58	1568.6	32.5	32.6	32.7	17.7	19.1	19.6	1568.6	1538.6	12.6
1599.0	1629.0	9.66	9.12	8.86	1629.0	34.2	34.4	34.0	16.9	18.4	18.9	1629.0	1599.0	11.7
1639.2	1669.2	9.79	9.38	9.16	1669.2	36.4	36.1	34.9	16.2	17.7	18.1	1669.2	1639.2	12.6
1679.4	1709.4	10.03	9.64	9.47	1709.4	39.4	38.1	35.7	15.8	17.1	17.6	1709.4	1679.4	13.1
1699.5	1729.5	9.98	9.63	9.49	1729.5	42.5	39.5	35.8	15.4	16.7	17.1	1729.5	1699.5	13.1
1780.0	1810.0	10.56	10.04	9.90	1810.0	55.4	39.7	34.6	14.5	15.7	16.3	1810.0	1780.0	11.7
1800.1	1830.1	10.65	10.12	9.96	1830.1	46.7	38.9	34.0	14.2	15.4	16.0	1830.1	1800.1	12.4

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Frequency Mixer

ADE-2M+

Typical Performance Data

RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)		
	@LO (dBm)			@LO (dBm)				@LO (dBm)		
	+4	+7	+10	+4	+7	+10		+4	+7	+10
35.1	1.64	1.69	1.73	2.14	2.60	3.43	5.1	1.67	1.40	1.23
50.1	1.27	1.35	1.41	2.08	2.84	3.82	10.1	1.67	1.39	1.24
60.2	1.25	1.33	1.40	2.04	3.00	4.08	20.1	1.67	1.40	1.23
100.4	1.25	1.33	1.40	1.92	2.69	3.70	30.2	1.72	1.44	1.26
120.6	1.22	1.32	1.39	1.89	2.62	3.58	50.4	1.71	1.42	1.24
130.0	1.23	1.33	1.40	1.84	2.53	3.44	70.6	1.76	1.45	1.27
201.0	1.25	1.33	1.39	1.90	2.65	3.61	90.8	1.73	1.42	1.26
241.2	1.27	1.35	1.41	1.94	2.71	3.69	100.0	1.75	1.43	1.27
281.5	1.27	1.35	1.40	1.96	2.74	3.70	111.0	1.73	1.43	1.25
301.6	1.28	1.36	1.41	1.94	2.68	3.60	131.2	1.74	1.45	1.28
382.0	1.31	1.38	1.44	2.04	2.79	3.70	151.4	1.73	1.44	1.28
422.2	1.32	1.40	1.46	2.04	2.77	3.62	171.6	1.71	1.42	1.26
442.4	1.33	1.40	1.46	2.10	2.84	3.72	191.8	1.73	1.44	1.28
462.5	1.32	1.40	1.45	2.13	2.88	3.76	212.0	1.75	1.46	1.31
482.6	1.32	1.41	1.46	2.13	2.85	3.70	232.2	1.72	1.45	1.30
530.0	1.33	1.41	1.49	2.16	2.86	3.67	252.5	1.71	1.43	1.29
563.0	1.33	1.40	1.46	2.24	2.95	3.76	272.7	1.74	1.47	1.32
623.4	1.35	1.42	1.48	2.29	2.96	3.73	292.9	1.74	1.48	1.34
643.5	1.35	1.43	1.49	2.33	3.01	3.78	313.1	1.72	1.46	1.32
663.6	1.36	1.44	1.51	2.36	3.02	3.76	333.3	1.74	1.48	1.34
744.0	1.40	1.47	1.54	2.47	3.12	3.84	353.5	1.76	1.51	1.38
764.2	1.41	1.48	1.55	2.49	3.14	3.85	373.7	1.73	1.49	1.38
804.4	1.44	1.51	1.57	2.52	3.15	3.84	393.9	1.72	1.49	1.37
824.5	1.45	1.52	1.57	2.56	3.18	3.87	414.1	1.76	1.52	1.41
844.6	1.45	1.52	1.58	2.60	3.21	3.89	434.3	1.76	1.53	1.43
925.0	1.49	1.57	1.64	2.72	3.27	3.89	454.5	1.74	1.52	1.42
945.2	1.49	1.58	1.65	2.75	3.29	3.90	474.7	1.77	1.55	1.45
985.4	1.49	1.58	1.64	2.82	3.33	3.92	500.0	1.80	1.59	1.50
1005.5	1.49	1.57	1.64	2.87	3.38	3.97	515.1	1.76	1.56	1.48
1025.6	1.49	1.57	1.63	2.93	3.45	4.03	535.3	1.76	1.56	1.48
1030.0	1.49	1.57	1.63	2.94	3.45	4.03	555.5	1.82	1.62	1.54
1126.2	1.60	1.63	1.68	3.12	3.65	4.20	575.7	1.83	1.64	1.58
1166.4	1.69	1.71	1.74	3.17	3.70	4.26	595.9	1.81	1.62	1.56
1186.5	1.75	1.76	1.78	3.20	3.72	4.28	616.1	1.84	1.66	1.59
1206.6	1.81	1.81	1.82	3.22	3.73	4.29	636.3	1.87	1.70	1.64
1267.0	2.05	2.04	2.03	3.30	3.77	4.31	656.5	1.86	1.70	1.65
1307.2	2.25	2.23	2.23	3.35	3.80	4.32	676.7	1.88	1.71	1.65
1347.4	2.46	2.45	2.43	3.38	3.80	4.31	696.9	1.92	1.74	1.69
1367.5	2.58	2.57	2.55	3.43	3.83	4.34	717.1	1.89	1.73	1.68
1448.0	2.97	2.96	2.94	3.50	3.85	4.30	757.6	1.93	1.78	1.73
1488.2	3.15	3.15	3.12	3.56	3.89	4.33	777.8	1.95	1.81	1.77
1528.4	3.30	3.28	3.25	3.58	3.85	4.25	798.0	1.92	1.77	1.73
1548.5	3.35	3.33	3.29	3.60	3.85	4.24	818.2	1.91	1.75	1.71
1568.6	3.38	3.37	3.33	3.62	3.87	4.26	858.6	1.94	1.81	1.78
1629.0	3.48	3.47	3.45	3.66	3.83	4.19	878.8	1.95	1.81	1.77
1669.2	3.59	3.61	3.60	3.72	3.89	4.26	899.0	1.97	1.82	1.78
1709.4	3.68	3.71	3.72	3.84	3.98	4.34	919.2	1.95	1.81	1.78
1729.5	3.69	3.70	3.70	3.90	4.02	4.35	939.4	1.92	1.79	1.76
1810.0	3.89	3.90	3.89	4.27	4.30	4.55	959.6	1.96	1.82	1.79
1830.1	3.91	3.90	3.90	4.36	4.37	4.59	1000.0	1.91	2.05	2.25

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