

Frequency Mixer

ADE-5+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+1dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+4	+7	+10			+4	+7	+10			+4	+7	+10
5.0	35.0	7.48	6.98	6.78	10.1	40.1	15.58	20.51	23.05	10.1	40.1	0.45	0.31	0.25
10.0	40.0	7.24	6.64	6.44	49.9	79.9	15.26	20.08	20.07	49.9	79.9	0.53	0.33	0.28
49.9	79.9	7.37	6.84	6.60	89.7	119.7	14.88	18.96	20.00	89.7	119.7	0.50	0.41	0.28
89.7	119.7	7.41	6.89	6.65	129.5	159.5	15.49	15.95	20.95	129.5	159.5	0.49	0.40	0.23
129.5	159.5	7.42	6.87	6.66	169.3	199.3	14.96	17.56	20.45	169.3	199.3	0.49	0.41	0.26
169.3	199.3	7.36	6.88	6.66	209.0	239.0	14.80	17.96	19.47	209.0	239.0	0.57	0.38	0.24
209.0	239.0	7.33	6.87	6.69	248.8	278.8	14.87	18.74	23.99	248.8	278.8	0.55	0.34	0.32
248.8	278.8	7.31	6.89	6.69	308.5	338.5	14.65	18.93	17.31	308.5	338.5	0.47	0.39	0.23
308.5	338.5	7.34	6.94	6.75	348.3	378.3	17.66	18.72	17.98	348.3	378.3	0.60	0.37	0.28
348.3	378.3	7.33	6.95	6.74	408.0	438.0	15.65	17.13	18.08	408.0	438.0	0.62	0.36	0.27
408.0	438.0	7.37	6.98	6.78	447.8	477.8	16.68	20.38	17.17	447.8	477.8	0.50	0.39	0.28
447.8	477.8	7.40	7.00	6.80	507.5	537.5	17.82	17.23	17.43	507.5	537.5	0.49	0.38	0.29
507.5	537.5	7.44	7.04	6.87	547.3	577.3	16.90	17.00	16.06	547.3	577.3	0.46	0.50	0.29
547.3	577.3	7.49	7.08	6.89	606.9	636.9	15.01	15.88	15.85	606.9	636.9	0.52	0.51	0.34
606.9	636.9	7.55	7.10	6.83	646.7	676.7	15.61	15.91	15.01	646.7	676.7	0.70	0.65	0.55
646.7	676.7	7.58	7.17	6.89	706.4	736.4	16.16	16.86	17.45	706.4	736.4	0.63	0.54	0.46
706.4	736.4	7.66	7.24	6.99	746.2	776.2	16.41	17.01	16.57	746.2	776.2	0.70	0.57	0.52
805.9	835.9	7.68	7.24	6.94	805.9	835.9	15.03	15.52	14.82	805.9	835.9	0.83	0.73	0.58
845.7	875.7	7.67	7.17	6.89	845.7	875.7	13.72	14.23	14.92	845.7	875.7	1.08	0.93	0.76
905.4	935.4	7.73	7.18	6.86	905.4	935.4	12.88	12.10	13.20	905.4	935.4	1.15	1.07	0.93
945.2	975.2	7.80	7.19	6.85	945.2	975.2	12.26	11.50	12.30	945.2	975.2	1.17	1.16	0.96
1004.8	1034.8	7.88	7.26	6.89	1004.8	1034.8	11.09	11.31	11.03	1004.8	1034.8	1.27	1.16	0.97
1044.6	1074.6	7.91	7.28	6.89	1044.6	1074.6	10.10	10.80	12.00	1044.6	1074.6	1.10	1.01	0.97
1104.3	1134.3	7.96	7.36	6.94	1104.3	1134.3	8.96	9.96	11.18	1104.3	1134.3	1.18	1.08	0.96
1144.1	1174.1	8.00	7.42	7.00	1144.1	1174.1	8.35	9.98	10.73	1144.1	1174.1	1.19	1.09	1.04
1203.8	1233.8	8.02	7.51	7.12	1203.8	1233.8	7.74	9.22	9.32	1203.8	1233.8	1.30	1.07	0.99
1243.6	1273.6	8.04	7.54	7.22	1243.6	1273.6	7.33	8.33	10.20	1243.6	1273.6	1.33	1.05	0.96
1303.3	1333.3	7.97	7.50	7.16	1303.3	1333.3	8.15	10.60	12.48	1303.3	1333.3	1.48	1.16	1.00
1343.0	1373.0	7.97	7.52	7.21	1343.0	1373.0	8.92	11.15	12.65	1343.0	1373.0	1.47	1.22	1.01
1402.7	1432.7	8.00	7.56	7.29	1402.7	1432.7	9.92	12.80	13.65	1402.7	1432.7	1.38	1.11	0.88
1442.5	1472.5	8.03	7.63	7.37	1442.5	1472.5	10.21	13.09	14.38	1442.5	1472.5	1.32	1.08	0.91
1502.2	1532.2	8.21	7.84	7.66	1502.2	1532.2	10.87	12.83	14.40	1502.2	1532.2	1.28	0.94	0.90
1542.0	1572.0	8.36	8.07	7.88	1542.0	1572.0	11.83	14.09	15.96	1542.0	1572.0	1.19	0.89	0.74
1601.7	1631.7	8.69	8.43	8.29	1601.7	1631.7	11.25	13.16	16.08	1601.7	1631.7	0.95	0.71	0.81
1641.5	1671.5	8.84	8.68	8.59	1641.5	1671.5	11.08	13.06	15.88	1641.5	1671.5	0.74	0.70	0.66
1701.2	1731.2	9.06	8.89	8.82	1701.2	1731.2	11.38	13.94	15.06	1701.2	1731.2	0.72	0.58	0.45
1740.9	1770.9	9.19	9.03	8.97	1740.9	1770.9	12.51	13.39	15.86	1740.9	1770.9	0.87	0.55	0.46
1800.6	1830.6	9.49	9.31	9.24	1800.6	1830.6	13.91	16.85	18.66	1800.6	1830.6	0.69	0.44	0.31
1840.4	1870.4	9.78	9.54	9.44	1840.4	1870.4	15.41	16.40	18.41	1840.4	1870.4	0.51	0.40	0.42
1900.1	1930.1	10.18	9.93	9.87	1900.1	1930.1	14.49	18.96	17.05	1900.1	1930.1	0.61	0.37	0.29

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=750.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1500.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
740.0	10.1	7.47	10.0	20.1	6.66	1000.0	500.1	8.51
721.3	28.8	7.48	30.0	40.1	6.24	979.8	520.3	8.33
702.6	47.5	7.46	50.0	60.1	6.16	959.6	540.5	8.26
683.8	66.3	7.47	70.0	80.1	6.24	939.4	560.7	8.20
665.1	85.0	7.40	90.0	100.1	6.22	919.2	580.9	8.15
646.4	103.7	7.37	110.0	120.1	6.12	899.0	601.1	8.06
627.7	122.4	7.32	130.0	140.1	6.16	878.8	621.3	8.03
609.0	141.1	7.25	150.0	160.1	6.20	858.6	641.5	7.97
590.3	159.8	7.23	170.0	180.1	6.18	838.4	661.7	7.95
571.5	178.6	7.19	190.0	200.1	6.21	818.2	681.9	7.95
552.8	197.3	7.18	210.0	220.1	6.20	798.0	702.1	7.92
534.1	216.0	7.14	230.0	240.1	6.28	777.8	722.3	7.90
515.4	234.7	7.12	250.0	260.1	6.22	757.6	742.5	7.87
496.7	253.4	7.10	270.0	280.1	6.27	737.3	762.8	7.88
477.9	272.2	7.09	290.0	300.1	6.36	717.1	783.0	7.84
459.2	290.9	7.08	310.0	320.1	6.35	696.9	803.2	7.79
440.5	309.6	7.11	330.0	340.1	6.37	676.7	823.4	7.73
421.8	328.3	7.09	350.0	360.1	6.44	656.5	843.6	7.72
403.1	347.0	7.05	370.0	380.1	6.41	636.3	863.8	7.66
384.4	365.7	7.04	390.0	400.1	6.46	616.1	884.0	7.63
365.6	384.5	7.01	430.0	440.1	6.86	575.7	924.4	7.53
346.9	403.2	7.04	450.0	460.1	6.63	555.5	944.6	7.54
328.2	421.9	7.04	490.0	500.1	6.59	515.1	985.0	7.50
309.5	440.6	7.02	510.0	520.1	6.64	494.9	1005.2	7.50
290.8	459.3	7.01	550.0	560.1	6.73	454.5	1045.6	7.52
272.1	478.0	7.03	570.0	580.1	6.79	434.3	1065.8	7.59
253.3	496.8	7.04	610.0	620.1	6.77	393.9	1106.2	7.55
234.6	515.5	6.98	630.0	640.1	6.97	373.7	1126.4	7.63
215.9	534.2	7.06	670.0	680.1	6.98	333.3	1166.8	7.69
197.2	552.9	7.04	690.0	700.1	7.05	313.1	1187.0	7.74
178.5	571.6	7.04	730.0	740.1	7.19	272.7	1227.4	7.84
159.7	590.4	7.03	750.0	760.1	7.28	252.4	1247.7	7.89
141.0	609.1	7.04	790.0	800.1	7.24	212.0	1288.1	7.96
122.3	627.8	7.06	810.0	820.1	7.24	191.8	1308.3	8.01
103.6	646.5	7.10	850.0	860.1	7.23	151.4	1348.7	7.99
84.9	665.2	7.12	870.0	880.1	7.13	131.2	1368.9	7.96
66.2	683.9	7.14	910.0	920.1	7.17	90.8	1409.3	7.94
47.4	702.7	7.15	930.0	940.1	7.24	70.6	1429.5	7.91
28.7	721.4	7.26	970.0	980.1	7.30	30.2	1469.9	7.81
10.0	740.1	7.14	990.0	1000.1	7.30	10.0	1490.1	7.77

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10
5.0	62.6	63.9	64.4	55.9	53.6	52.4
10.0	61.4	63.2	63.6	54.7	52.2	51.4
49.9	61.08	60.98	60.65	55.75	54.61	55.38
89.7	55.41	55.60	55.58	49.88	49.37	48.68
129.5	52.30	52.23	52.56	45.64	44.95	44.63
169.3	50.10	50.23	50.70	42.62	41.75	42.08
209.0	48.36	48.80	49.12	39.72	39.51	40.26
248.8	46.94	47.56	47.90	37.50	37.92	38.88
308.5	45.40	45.98	46.35	35.25	36.14	37.21
348.3	44.61	45.30	45.71	34.05	35.20	36.31
408.0	43.15	43.93	44.43	32.74	34.07	35.15
447.8	42.36	43.14	43.68	31.86	33.18	34.18
507.5	41.41	42.42	43.10	31.08	32.51	33.50
547.3	40.59	41.65	42.39	30.48	31.87	32.81
606.9	39.04	40.18	41.02	29.97	31.20	31.87
646.7	37.90	39.08	39.97	29.70	30.95	31.53
706.4	36.33	37.46	38.35	29.10	30.30	30.82
805.9	34.21	35.20	35.96	27.33	28.08	28.44
845.7	33.70	34.62	35.33	26.53	27.07	27.37
905.4	32.94	33.74	34.36	25.59	25.92	26.07
945.2	32.65	33.39	33.90	25.15	25.36	25.35
1004.8	32.39	33.13	33.57	24.57	24.64	24.35
1044.6	32.16	32.91	33.36	24.12	24.17	23.78
1104.3	31.89	32.59	33.03	23.70	23.66	23.09
1144.1	31.75	32.41	32.84	23.44	23.43	22.85
1203.8	31.60	32.15	32.52	23.00	23.05	22.62
1243.6	31.58	32.03	32.35	22.53	22.58	22.33
1303.3	31.59	31.90	32.06	21.45	21.18	20.92
1343.0	31.54	31.72	31.81	20.63	20.08	19.65
1402.7	31.40	31.41	31.44	19.80	19.00	18.49
1442.5	31.29	31.16	31.14	19.40	18.56	18.04
1502.2	31.18	30.82	30.62	19.01	18.10	17.49
1542.0	31.23	30.67	30.33	18.96	17.97	17.30
1601.7	30.92	29.97	29.37	18.78	17.63	16.91
1641.5	30.61	29.34	28.56	18.67	17.39	16.57
1701.2	30.08	28.40	27.40	18.55	17.18	16.28
1740.9	29.78	27.83	26.70	18.45	17.03	16.09
1800.6	29.22	26.97	25.70	18.31	16.86	15.89
1840.4	28.86	26.56	25.26	18.20	16.76	15.78
1900.1	28.30	25.88	24.49	18.09	16.67	15.65

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	42.19	49.31	48.33
49.9	79.9	34.91	34.84	34.69
89.7	119.7	29.97	30.08	30.18
129.5	159.5	27.31	27.39	27.37
169.3	199.3	25.29	25.46	25.52
209.0	239.0	23.91	24.05	24.11
248.8	278.8	22.84	23.01	23.11
308.5	338.5	21.72	21.97	22.10
348.3	378.3	21.20	21.49	21.67
408.0	438.0	20.59	20.97	21.21
447.8	477.8	20.20	20.60	20.87
507.5	537.5	19.52	19.96	20.26
547.3	577.3	19.12	19.65	20.03
606.9	636.9	18.85	19.54	20.02
646.7	676.7	18.66	19.33	19.84
706.4	736.4	18.13	18.63	18.98
746.2	776.2	17.48	17.80	18.00
805.9	835.9	16.34	16.43	16.46
845.7	875.7	15.62	15.64	15.63
905.4	935.4	14.66	14.61	14.58
945.2	975.2	14.18	14.11	14.07
1004.8	1034.8	13.67	13.60	13.54
1044.6	1074.6	13.44	13.37	13.33
1104.3	1134.3	13.21	13.16	13.14
1144.1	1174.1	13.06	13.02	12.98
1203.8	1233.8	12.89	12.84	12.81
1243.6	1273.6	12.75	12.69	12.67
1303.3	1333.3	12.56	12.43	12.33
1343.0	1373.0	12.35	12.16	12.02
1402.7	1432.7	11.86	11.63	11.47
1442.5	1472.5	11.46	11.21	11.03
1502.2	1532.2	10.86	10.57	10.36
1542.0	1572.0	10.38	10.08	9.86
1601.7	1631.7	9.70	9.37	9.14
1641.5	1671.5	9.22	8.87	8.65
1701.2	1731.2	8.54	8.15	7.87
1740.9	1770.9	8.13	7.73	7.48
1800.6	1830.6	7.51	7.11	6.86
1840.4	1870.4	7.17	6.78	6.53
1900.1	1930.1	6.56	6.20	5.98

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1500.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
5.0	35.0	1.68	1.59	1.54	5.0	1.11	1.91	2.80	0.1	1.32	1.10	1.02
10.0	40.0	1.64	1.51	1.45	10.0	1.11	1.94	2.76	5.0	1.39	1.16	1.06
49.9	79.9	1.41	1.30	1.24	49.9	1.12	1.69	2.45	10.0	1.39	1.15	1.05
89.7	119.7	1.49	1.38	1.32	89.7	1.12	1.69	2.42	30.3	1.80	1.54	1.43
129.5	159.5	1.42	1.33	1.28	129.5	1.14	1.68	2.39	50.5	1.64	1.44	1.24
169.3	199.3	1.47	1.38	1.32	169.3	1.17	1.71	2.43	70.7	1.59	1.38	1.25
209.0	239.0	1.44	1.35	1.32	209.0	1.17	1.69	2.37	90.9	1.69	1.47	1.32
248.8	278.8	1.41	1.34	1.30	248.8	1.21	1.73	2.44	111.1	1.74	1.50	1.37
308.5	338.5	1.43	1.37	1.34	308.5	1.22	1.75	2.46	131.3	1.68	1.46	1.33
348.3	378.3	1.41	1.35	1.32	348.3	1.25	1.82	2.55	151.5	1.63	1.42	1.30
408.0	438.0	1.40	1.35	1.33	408.0	1.26	1.83	2.55	171.7	1.66	1.43	1.31
447.8	477.8	1.45	1.40	1.37	447.8	1.30	1.88	2.63	191.9	1.71	1.48	1.36
507.5	537.5	1.48	1.43	1.40	507.5	1.32	1.92	2.67	212.1	1.70	1.48	1.35
547.3	577.3	1.47	1.43	1.41	547.3	1.36	1.99	2.75	232.3	1.65	1.43	1.31
606.9	636.9	1.49	1.45	1.43	606.9	1.39	2.01	2.76	252.5	1.61	1.41	1.29
646.7	676.7	1.43	1.40	1.39	646.7	1.45	2.09	2.87	272.8	1.61	1.42	1.30
706.4	736.4	1.42	1.40	1.39	706.4	1.49	2.12	2.88	293.0	1.64	1.44	1.32
746.2	776.2	1.33	1.31	1.30	746.2	1.54	2.20	2.99	313.2	1.63	1.43	1.31
805.9	835.9	1.30	1.28	1.28	805.9	1.58	2.22	2.98	333.4	1.58	1.39	1.29
845.7	875.7	1.27	1.23	1.22	845.7	1.64	2.29	3.06	353.6	1.56	1.38	1.29
905.4	935.4	1.24	1.20	1.19	905.4	1.71	2.37	3.14	394.0	1.59	1.42	1.33
945.2	975.2	1.26	1.21	1.19	945.2	1.79	2.46	3.23	434.4	1.55	1.39	1.31
1004.8	1034.8	1.16	1.12	1.12	1004.8	1.88	2.57	3.35	454.6	1.55	1.40	1.33
1044.6	1074.6	1.15	1.11	1.11	1044.6	1.95	2.64	3.43	495.0	1.57	1.43	1.36
1104.3	1134.3	1.06	1.05	1.10	1104.3	2.03	2.73	3.52	515.2	1.55	1.42	1.36
1144.1	1174.1	1.08	1.09	1.13	1144.1	2.10	2.81	3.61	555.6	1.56	1.44	1.39
1203.8	1233.8	1.25	1.25	1.26	1203.8	2.15	2.84	3.62	575.8	1.57	1.46	1.41
1243.6	1273.6	1.29	1.30	1.32	1243.6	2.23	2.93	3.73	616.2	1.56	1.47	1.43
1303.3	1333.3	1.37	1.37	1.38	1303.3	2.22	2.86	3.62	636.4	1.57	1.48	1.45
1343.0	1373.0	1.44	1.45	1.47	1343.0	2.29	2.94	3.70	676.8	1.59	1.51	1.48
1402.7	1432.7	1.50	1.52	1.54	1402.7	2.29	2.90	3.63	697.0	1.57	1.50	1.47
1442.5	1472.5	1.60	1.63	1.64	1442.5	2.36	2.97	3.71	737.4	1.58	1.53	1.52
1502.2	1532.2	1.80	1.83	1.84	1502.2	2.44	3.03	3.76	757.7	1.60	1.55	1.53
1542.0	1572.0	1.90	1.93	1.94	1542.0	2.55	3.12	3.83	798.1	1.56	1.51	1.50
1601.7	1631.7	2.08	2.11	2.12	1601.7	2.71	3.26	3.94	818.3	1.55	1.52	1.52
1641.5	1671.5	1.99	2.03	2.04	1641.5	2.84	3.35	4.01	858.7	1.58	1.56	1.55
1701.2	1731.2	2.02	2.05	2.06	1701.2	3.03	3.48	4.10	878.9	1.56	1.53	1.53
1740.9	1770.9	1.88	1.91	1.93	1740.9	3.20	3.62	4.21	919.3	1.51	1.50	1.51
1800.6	1830.6	1.92	1.93	1.94	1800.6	3.36	3.70	4.21	939.5	1.52	1.51	1.53
1840.4	1870.4	2.03	2.04	2.07	1840.4	3.56	3.84	4.33	979.9	1.49	1.47	1.48
1900.1	1930.1	2.09	2.09	2.10	1900.1	3.69	3.88	4.29	1000.1	1.44	1.44	1.45

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+0	20	8	36	18	27	34	38	58	44
1	-	10	+0	27	14	39	33	41	47	38	59	48
2	124	63	48	59	50	59	51	62	63	61	69	64
3	117	68	79	67	67	68	65	86	79	77	81	82
4	118	96	90	91	83	81	83	91	90	92	92	94
5	116	107	103	130	110	95	86	104	100	99	102	105
6	119	102	109	100	99	119	104	83	119	102	114	112
7	114	101	103	114	115	125	100	95	102	109	109	109
8	109	99	103	114	110	97	110	101	97	91	101	106
9	117	95	106	112	107	106	102	109	108	95	97	98
10	114	99	98	102	122	111	107	102	104	110	104	96
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 750.1 MHz; -14.00 dBm.
 LO IN: 780.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -21.11 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	10	31	18	42	28	39	48	53	63	66
1	-	10	+0	28	14	42	33	46	56	43	67	54
2	89	51	37	47	39	48	42	57	71	54	67	60
3	116	47	60	49	50	50	47	65	61	60	63	59
4	115	78	71	69	58	61	58	77	61	70	64	64
5	114	73	76	73	66	66	62	72	64	73	71	75
6	111	91	87	91	88	78	70	71	70	72	72	78
7	122	92	97	94	107	87	78	78	78	79	85	89
8	106	110	104	99	102	116	92	91	83	82	82	93
9	113	121	111	116	109	104	105	103	107	105	94	97
10	105	111	113	111	130	111	114	116	106	99	99	98
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 750.1 MHz; -4.00 dBm.
 LO IN: 780.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -11.16 dBm

- Notes: 1. All Harmonics are in (dBc) relative to IF OUTPUT.
 2. + entry denotes harmonics are in (dBc) above IF OUTPUT.
 3. RF Cal represent the Harmonics level of the RF input signal to the mixer.

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