

Frequency Mixer

ADE-14+

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
800.1	830.1	7.48	7.18	7.00	800.1	830.1	21.00	22.05	21.43	800.1	830.1	1.33	1.01	0.79
815.5	845.5	7.54	7.22	7.04	815.5	845.5	22.63	21.67	20.20	805.1	835.1	1.06	0.75	0.56
830.9	860.9	7.57	7.23	7.05	830.9	860.9	20.00	17.10	19.38	810.1	840.1	1.15	0.86	0.66
846.3	876.3	7.59	7.26	7.07	846.3	876.3	21.94	18.42	18.25	815.1	845.1	1.12	0.75	0.63
861.6	891.6	7.63	7.28	7.09	861.6	891.6	20.56	17.51	17.24	820.1	850.1	1.13	0.80	0.57
877.0	907.0	7.67	7.29	7.09	877.0	907.0	20.46	20.02	16.32	825.1	855.1	1.09	0.78	0.62
892.4	922.4	7.68	7.30	7.11	892.4	922.4	18.67	17.43	17.50	830.1	860.1	1.13	0.78	0.63
907.8	937.8	7.75	7.35	7.14	907.8	937.8	17.42	16.08	16.72	835.1	865.1	1.08	0.78	0.60
923.2	953.2	7.81	7.38	7.17	923.2	953.2	14.08	16.96	14.85	840.1	870.1	1.23	0.88	0.72
938.6	968.6	7.85	7.41	7.19	938.6	968.6	12.23	16.31	14.00	845.1	875.1	1.12	0.79	0.55
953.9	983.9	7.92	7.47	7.23	953.9	983.9	11.03	19.32	14.69	850.1	880.1	1.09	0.79	0.53
969.3	999.3	8.02	7.53	7.26	969.3	999.3	10.18	19.93	15.99	855.1	885.1	1.11	0.73	0.63
984.7	1014.7	8.03	7.55	7.30	984.7	1014.7	9.27	20.09	16.88	860.1	890.1	1.14	0.75	0.61
1000.1	1030.1	8.12	7.62	7.33	1000.1	1030.1	8.90	14.57	17.91	865.1	895.1	1.08	0.81	0.61
1015.5	1045.5	8.20	7.70	7.39	1015.5	1045.5	8.25	13.77	18.86	870.1	900.1	1.14	0.80	0.60
1030.9	1060.9	8.27	7.75	7.44	1030.9	1060.9	8.21	12.97	23.16	875.1	905.1	1.16	0.83	0.64
1046.3	1076.3	8.33	7.83	7.51	1046.3	1076.3	7.54	12.02	18.75	880.1	910.1	1.14	0.79	0.61
1061.6	1091.6	8.43	7.91	7.57	1061.6	1091.6	7.15	11.14	18.34	885.1	915.1	1.17	0.83	0.59
1077.0	1107.0	8.48	7.95	7.61	1077.0	1107.0	7.33	11.10	21.48	890.1	920.1	1.17	0.79	0.64
1092.4	1122.4	8.56	8.05	7.67	1092.4	1122.4	7.13	10.07	21.37	895.1	925.1	1.13	0.84	0.58
1107.8	1137.8	8.68	8.15	7.75	1107.8	1137.8	6.89	10.04	16.87	900.1	930.1	1.15	0.81	0.59
1123.2	1153.2	8.75	8.21	7.81	1123.2	1153.2	6.65	9.69	15.46	905.1	935.1	1.33	0.94	0.77
1138.6	1168.6	8.86	8.33	7.91	1138.6	1168.6	7.17	9.88	15.51	910.1	940.1	1.20	0.89	0.67
1153.9	1183.9	8.98	8.45	8.00	1153.9	1183.9	7.22	9.34	16.55	915.1	945.1	1.23	0.87	0.66
1169.3	1199.3	9.07	8.53	8.07	1169.3	1199.3	7.18	9.61	15.60	920.1	950.1	1.20	0.88	0.65
1184.7	1214.7	9.22	8.69	8.23	1184.7	1214.7	7.55	9.01	15.66	925.1	955.1	1.21	0.86	0.67
1200.1	1230.1	9.29	8.79	8.33	1200.1	1230.1	7.74	9.53	14.23	930.1	960.1	1.18	0.86	0.66
1215.5	1245.5	9.41	8.90	8.46	1215.5	1245.5	8.25	9.53	13.71	935.1	965.1	1.30	1.05	0.77
1230.9	1260.9	9.57	9.07	8.64	1230.9	1260.9	8.91	9.97	12.60	940.1	970.1	1.25	0.92	0.72
1246.3	1276.3	9.72	9.19	8.76	1246.3	1276.3	9.41	11.22	13.53	945.1	975.1	1.21	0.92	0.74
1261.6	1291.6	9.79	9.27	8.84	1261.6	1291.6	10.25	12.32	13.57	950.1	980.1	1.21	0.88	0.73
1277.0	1307.0	9.95	9.41	8.97	1277.0	1307.0	10.51	12.03	15.40	955.1	985.1	1.17	0.91	0.74
1292.4	1322.4	10.05	9.50	9.05	1292.4	1322.4	10.32	12.23	17.29	960.1	990.1	1.25	0.91	0.71
1307.8	1337.8	10.15	9.61	9.12	1307.8	1337.8	10.88	12.21	18.19	965.1	995.1	1.23	0.96	0.74
1323.2	1353.2	10.32	9.73	9.25	1323.2	1353.2	10.13	11.60	17.30	970.1	1000.1	1.34	1.06	0.86
1338.6	1368.6	10.42	9.83	9.35	1338.6	1368.6	9.96	11.52	16.83	975.1	1005.1	1.26	0.95	0.75
1353.9	1383.9	10.49	9.89	9.39	1353.9	1383.9	9.48	11.32	14.34	980.1	1010.1	1.17	0.96	0.72
1369.3	1399.3	10.61	10.01	9.49	1369.3	1399.3	9.64	12.16	15.81	985.1	1015.1	1.24	0.95	0.72
1384.7	1414.7	10.72	10.10	9.58	1384.7	1414.7	9.76	11.18	14.37	995.1	1025.1	1.18	0.97	0.76
1400.1	1430.1	10.81	10.19	9.68	1400.1	1430.1	9.26	11.59	13.39	1000.1	1030.1	1.34	1.08	0.89

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Frequency Mixer

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=900.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=800.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1000.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
100.0	800.1	7.19	10.0	810.1	7.27	200.0	800.1	7.69
95.3	804.8	7.18	14.8	814.9	7.26	195.3	804.9	7.70
90.5	809.6	7.18	19.5	819.6	7.28	190.5	809.6	7.69
85.8	814.3	7.18	24.3	824.4	7.22	185.8	814.4	7.68
81.1	819.0	7.20	29.0	829.1	7.24	181.0	819.1	7.68
76.3	823.8	7.19	33.8	833.9	7.24	176.3	823.9	7.67
71.6	828.5	7.18	38.5	838.6	7.23	171.5	828.6	7.66
66.8	833.3	7.16	43.3	843.4	7.23	166.8	833.4	7.66
62.1	838.0	7.15	48.0	848.1	7.23	162.0	838.1	7.67
57.4	842.7	7.13	52.8	852.9	7.26	157.3	842.9	7.67
52.6	847.5	7.14	57.5	857.6	7.24	152.5	847.6	7.66
47.9	852.2	7.13	62.3	862.4	7.24	147.8	852.4	7.66
43.2	856.9	7.15	67.0	867.1	7.24	143.0	857.1	7.66
38.4	861.7	7.16	71.8	871.9	7.25	138.3	861.9	7.65
33.7	866.4	7.17	76.5	876.6	7.23	133.5	866.6	7.63
28.9	871.2	7.15	81.3	881.4	7.25	128.8	871.4	7.61
24.2	875.9	7.10	86.0	886.1	7.24	124.0	876.1	7.59
19.5	880.6	7.14	90.8	890.9	7.25	119.3	880.9	7.60
14.7	885.4	7.08	95.5	895.6	7.25	114.5	885.6	7.59
10.0	890.1	7.22	100.3	900.4	7.25	109.8	890.4	7.58
10.0	910.1	7.41	105.0	905.1	7.27	105.0	895.1	7.58
14.5	914.6	7.15	109.8	909.9	7.26	100.3	899.9	7.58
19.0	919.1	7.16	114.5	914.6	7.26	95.5	904.6	7.57
23.5	923.6	7.13	119.3	919.4	7.25	90.8	909.4	7.57
28.0	928.1	7.10	124.0	924.1	7.27	86.0	914.1	7.55
32.5	932.6	7.12	128.8	928.9	7.29	81.3	918.9	7.54
37.0	937.1	7.10	133.5	933.6	7.30	76.5	923.6	7.54
41.5	941.6	7.15	138.3	938.4	7.33	71.8	928.4	7.53
46.0	946.1	7.14	143.0	943.1	7.34	67.0	933.1	7.55
50.5	950.6	7.16	147.8	947.9	7.33	62.3	937.9	7.54
55.0	955.1	7.18	152.5	952.6	7.34	57.5	942.6	7.55
59.5	959.6	7.20	157.3	957.4	7.33	52.8	947.4	7.54
64.0	964.1	7.20	162.0	962.1	7.33	48.0	952.1	7.53
68.5	968.6	7.19	166.8	966.9	7.33	43.3	956.9	7.57
73.0	973.1	7.19	171.5	971.6	7.34	38.5	961.6	7.59
77.5	977.6	7.18	176.3	976.4	7.35	33.8	966.4	7.59
82.0	982.1	7.17	181.0	981.1	7.36	29.0	971.1	7.58
86.5	986.6	7.19	185.8	985.9	7.36	24.3	975.9	7.60
95.5	995.6	7.23	195.3	995.4	7.36	14.8	985.4	7.63
100.0	1000.1	7.27	200.0	1000.1	7.36	10.0	990.1	7.65

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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
800.1	31.52	31.36	31.23	27.25	26.20	25.50
815.5	31.43	31.23	31.09	27.33	26.19	25.48
830.9	31.36	31.16	31.02	27.26	26.08	25.35
846.3	31.32	31.11	30.96	27.34	26.08	25.30
861.6	31.30	31.06	30.92	27.55	26.22	25.45
877.0	31.21	30.97	30.84	27.73	26.37	25.58
892.4	31.18	30.93	30.79	27.97	26.54	25.69
907.8	31.20	30.95	30.80	28.03	26.49	25.58
923.2	31.23	30.99	30.84	28.00	26.47	25.56
938.6	31.23	30.98	30.79	28.30	26.68	25.72
953.9	31.23	31.00	30.79	28.51	26.87	25.86
969.3	31.23	31.00	30.76	28.57	26.89	25.83
984.7	31.17	30.94	30.68	28.76	27.15	26.03
1000.1	31.12	30.92	30.64	28.98	27.35	26.17
1015.5	31.09	30.88	30.59	28.92	27.34	26.15
1030.9	31.01	30.81	30.52	28.98	27.43	26.14
1046.3	30.90	30.71	30.44	29.01	27.60	26.29
1061.6	30.88	30.68	30.39	29.11	27.76	26.45
1077.0	30.88	30.67	30.37	29.25	28.07	26.75
1092.4	30.86	30.65	30.37	29.21	28.03	26.70
1107.8	30.89	30.68	30.39	29.09	28.02	26.73
1123.2	30.93	30.72	30.44	29.18	28.18	26.99
1138.6	30.96	30.78	30.50	29.23	28.37	27.29
1153.9	30.98	30.81	30.52	29.20	28.39	27.41
1169.3	31.03	30.89	30.63	29.27	28.62	27.85
1184.7	31.08	30.95	30.73	29.28	28.66	28.03
1200.1	31.05	30.94	30.74	29.21	28.64	28.11
1215.5	31.01	30.90	30.72	29.07	28.48	28.08
1230.9	31.04	30.93	30.78	29.00	28.40	28.04
1246.3	30.99	30.84	30.69	28.88	28.24	27.87
1261.6	30.90	30.71	30.56	28.80	28.09	27.68
1277.0	30.86	30.65	30.50	28.60	27.82	27.39
1292.4	30.83	30.58	30.40	28.52	27.74	27.31
1307.8	30.74	30.47	30.27	28.45	27.66	27.22
1323.2	30.68	30.38	30.19	28.28	27.49	27.05
1338.6	30.61	30.28	30.07	28.05	27.29	26.89
1353.9	30.62	30.26	30.03	28.10	27.35	26.95
1369.3	30.57	30.19	29.98	28.08	27.35	26.94
1384.7	30.48	30.09	29.86	27.96	27.24	26.81
1400.1	30.44	30.03	29.80	27.83	27.11	26.62

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
800.1	830.1	23.40	23.96	24.26
815.5	845.5	23.16	23.64	23.95
830.9	860.9	22.98	23.42	23.69
846.3	876.3	22.80	23.18	23.44
861.6	891.6	22.59	22.97	23.19
877.0	907.0	22.41	22.78	23.00
892.4	922.4	22.29	22.66	22.88
907.8	937.8	22.16	22.54	22.75
923.2	953.2	22.01	22.42	22.66
938.6	968.6	21.89	22.35	22.63
953.9	983.9	21.68	22.16	22.48
969.3	999.3	21.56	22.07	22.45
984.7	1014.7	21.54	22.05	22.41
1000.1	1030.1	21.45	21.92	22.30
1015.5	1045.5	21.33	21.74	22.12
1030.9	1060.9	21.41	21.79	22.16
1046.3	1076.3	21.26	21.53	21.85
1061.6	1091.6	21.30	21.54	21.84
1077.0	1107.0	21.28	21.45	21.69
1092.4	1122.4	21.29	21.40	21.54
1107.8	1137.8	21.24	21.25	21.31
1123.2	1153.2	21.29	21.26	21.23
1138.6	1168.6	21.20	21.11	20.98
1153.9	1183.9	21.21	21.06	20.84
1169.3	1199.3	21.20	21.00	20.71
1184.7	1214.7	21.18	21.01	20.64
1200.1	1230.1	21.03	20.87	20.46
1215.5	1245.5	20.96	20.81	20.42
1230.9	1260.9	20.72	20.64	20.29
1246.3	1276.3	20.42	20.39	20.10
1261.6	1291.6	20.09	20.10	19.85
1277.0	1307.0	19.73	19.75	19.55
1292.4	1322.4	19.30	19.31	19.11
1307.8	1337.8	18.91	18.89	18.70
1323.2	1353.2	18.48	18.44	18.24
1338.6	1368.6	18.07	17.98	17.77
1353.9	1383.9	17.67	17.55	17.32
1369.3	1399.3	17.30	17.14	16.91
1384.7	1414.7	16.90	16.72	16.47
1400.1	1430.1	16.52	16.30	16.05

Frequency Mixer

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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+4	+7	+10
800.1	830.1	1.77	1.87	1.94
815.5	845.5	1.76	1.86	1.93
830.9	860.9	1.77	1.87	1.95
846.3	876.3	1.78	1.89	1.97
861.6	891.6	1.80	1.91	2.00
877.0	907.0	1.82	1.93	2.01
892.4	922.4	1.86	1.97	2.05
907.8	937.8	1.84	1.94	2.02
923.2	953.2	1.84	1.94	2.02
938.6	968.6	1.85	1.94	2.03
953.9	983.9	1.88	1.98	2.07
969.3	999.3	1.90	2.00	2.08
984.7	1014.7	1.95	2.04	2.12
1000.1	1030.1	1.96	2.04	2.12
1015.5	1045.5	1.98	2.05	2.13
1030.9	1060.9	2.01	2.09	2.17
1046.3	1076.3	2.08	2.15	2.22
1061.6	1091.6	2.14	2.20	2.28
1077.0	1107.0	2.21	2.26	2.33
1092.4	1122.4	2.23	2.27	2.33
1107.8	1137.8	2.26	2.29	2.34
1123.2	1153.2	2.33	2.36	2.40
1138.6	1168.6	2.46	2.48	2.53
1153.9	1183.9	2.59	2.61	2.64
1169.3	1199.3	2.67	2.67	2.69
1184.7	1214.7	2.71	2.70	2.71
1200.1	1230.1	2.74	2.73	2.74
1215.5	1245.5	2.84	2.83	2.84
1230.9	1260.9	3.03	3.01	3.01
1246.3	1276.3	3.20	3.17	3.17
1261.6	1291.6	3.26	3.23	3.21
1277.0	1307.0	3.29	3.25	3.24
1292.4	1322.4	3.33	3.29	3.27
1307.8	1337.8	3.43	3.39	3.37
1323.2	1353.2	3.65	3.61	3.58
1338.6	1368.6	3.98	3.93	3.90
1353.9	1383.9	3.91	3.86	3.82
1369.3	1399.3	3.87	3.82	3.77
1384.7	1414.7	3.91	3.86	3.82
1400.1	1430.1	4.07	4.02	3.97

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+4	+7	+10
800.1	1.87	2.39	2.99
815.5	1.87	2.40	3.00
830.9	1.92	2.45	3.06
846.3	1.92	2.43	3.02
861.6	1.92	2.43	3.01
877.0	1.96	2.46	3.05
892.4	1.96	2.44	3.01
907.8	1.97	2.47	3.05
923.2	2.03	2.53	3.13
938.6	2.04	2.54	3.11
953.9	2.05	2.54	3.12
969.3	2.08	2.58	3.16
984.7	2.08	2.57	3.14
1000.1	2.10	2.60	3.17
1015.5	2.15	2.67	3.25
1030.9	2.16	2.67	3.23
1046.3	2.16	2.68	3.25
1061.6	2.20	2.72	3.29
1077.0	2.18	2.68	3.25
1092.4	2.19	2.70	3.26
1107.8	2.23	2.75	3.32
1123.2	2.24	2.75	3.31
1138.6	2.25	2.76	3.33
1153.9	2.29	2.80	3.38
1169.3	2.27	2.77	3.34
1184.7	2.28	2.78	3.34
1200.1	2.31	2.81	3.38
1215.5	2.30	2.79	3.36
1230.9	2.32	2.82	3.40
1246.3	2.35	2.86	3.43
1261.6	2.33	2.81	3.37
1277.0	2.34	2.81	3.38
1292.4	2.36	2.83	3.40
1307.8	2.34	2.80	3.35
1323.2	2.36	2.82	3.38
1338.6	2.38	2.84	3.40
1353.9	2.37	2.80	3.34
1369.3	2.37	2.81	3.35
1384.7	2.39	2.82	3.35
1400.1	2.37	2.78	3.31

IF (OUT) (MHz)	IF VSWR @LO=1000.1MHz (:1)		
	@LO (dBm)		
	+4	+7	+10
10.1	1.97	1.79	1.59
15.0	2.39	1.86	1.79
19.8	2.26	1.91	1.56
24.7	2.26	1.88	1.68
29.6	2.09	1.76	1.66
34.5	2.22	1.84	1.64
39.3	2.14	1.75	1.60
44.2	2.21	1.77	1.55
49.1	2.03	1.74	1.54
53.9	2.10	1.74	1.60
58.8	2.10	1.76	1.58
63.7	2.07	1.73	1.61
68.6	2.10	1.79	1.60
73.4	2.10	1.77	1.58
78.3	2.05	1.79	1.60
83.2	2.09	1.80	1.61
88.0	2.10	1.77	1.60
92.9	2.09	1.79	1.65
97.8	2.13	1.80	1.59
102.7	2.13	1.78	1.62
107.5	2.13	1.80	1.61
112.4	2.12	1.81	1.62
117.3	2.12	1.80	1.60
122.2	2.12	1.79	1.61
127.0	2.10	1.77	1.62
131.9	2.08	1.79	1.59
136.8	2.13	1.80	1.65
141.6	2.10	1.79	1.62
146.5	2.11	1.78	1.63
151.4	2.09	1.79	1.61
156.3	2.08	1.77	1.60
161.1	2.08	1.80	1.62
166.0	2.09	1.78	1.61
170.9	2.10	1.79	1.61
175.7	2.06	1.78	1.61
180.6	2.07	1.78	1.61
185.5	2.10	1.80	1.63
190.4	2.09	1.80	1.63
195.2	2.08	1.80	1.62
200.1	2.07	1.80	1.62

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	26	26	20	40	31	44	51	67	66	70
1	-	16	+0	36	12	41	37	40	51	60	72	68
2	90	53	56	63	55	54	48	57	52	62	69	79
3	129	52	56	47	53	48	45	66	59	56	63	79
4	112	76	88	64	68	65	66	74	72	79	76	87
5	113	77	75	82	74	76	65	70	67	76	82	86
6	115	107	94	99	96	84	81	80	80	85	98	89
7	109	111	98	108	110	95	96	84	93	83	89	99
8	95	93	108	111	111	109	103	97	96	93	94	107
9	122	119	108	107	108	117	112	106	106	99	100	100
10	109	111	110	116	117	117	112	116	126	108	102	99
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 900.1 MHz; -4.00 dBm.
 LO IN: 930.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -11.35 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	16	16	10	29	19	32	38	54	52	57
1	-	16	+0	31	11	44	36	36	46	57	68	63
2	110	58	74	64	63	60	56	72	61	71	77	95
3	119	72	77	67	72	67	67	80	82	78	81	105
4	112	99	108	90	94	81	95	93	103	106	103	100
5	115	107	105	110	114	102	82	113	102	102	108	107
6	117	96	104	104	106	102	103	83	97	100	109	98
7	133	100	102	100	102	113	95	99	84	97	106	98
8	103	101	105	103	106	108	98	111	96	95	100	103
9	121	98	97	105	114	103	99	113	105	92	96	95
10	107	110	111	97	110	103	108	104	102	98	94	84
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 900.1 MHz; -14.00 dBm.
 LO IN: 930.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -21.21 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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