

Frequency Mixer

ADE-ED10905/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=836.5MHz (dB)		
		@LO (dBm)		
		+4	+7	+10
847.1	10.6	6.96	6.55	6.33
882.1	45.6	6.88	6.43	6.21
917.1	80.6	6.92	6.44	6.17
952.1	115.6	6.63	6.22	6.07
987.1	150.6	6.47	6.14	6.02
1022.1	185.6	6.41	6.10	6.01
1057.1	220.6	6.32	6.06	5.98
1092.1	255.6	6.27	6.05	5.98
1127.1	290.6	6.24	6.04	5.94
1162.1	325.6	6.19	5.97	5.89
1197.1	360.6	6.25	6.02	5.94
1232.1	395.6	6.24	6.04	5.95
1267.1	430.6	6.24	6.06	5.98
1302.1	465.6	6.27	6.10	5.99
1332.1	495.6	6.29	6.11	6.02
1367.1	530.6	6.37	6.15	6.06
1397.1	560.6	6.38	6.16	6.01
1432.1	595.6	6.44	6.17	6.04
1462.1	625.6	6.44	6.13	5.96
1497.1	660.6	6.37	6.04	5.85
1527.1	690.6	6.46	6.11	5.87
1562.1	725.6	6.45	6.09	5.85
1592.1	755.6	6.47	6.14	5.92
1627.1	790.6	6.68	6.36	6.14
1657.1	820.6	6.76	6.43	6.24
1692.1	855.6	6.87	6.61	6.45
1722.1	885.6	7.05	6.75	6.62
1757.1	920.6	7.09	6.76	6.61
1787.1	950.6	7.38	7.02	6.88
1822.1	985.6	7.66	7.30	7.13
1852.1	1015.6	7.78	7.41	7.22
1887.1	1050.6	8.29	7.92	7.71
1917.1	1080.6	8.47	8.10	7.88
1952.1	1115.6	8.59	8.24	8.02
1982.1	1145.6	9.06	8.72	8.53
2017.1	1180.6	9.19	8.87	8.70
2047.1	1210.6	9.38	9.07	8.95
2082.1	1245.6	9.97	9.68	9.65
2112.1	1275.6	10.12	9.84	9.99
2147.1	1310.6	10.42	10.24	10.61

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+4	+7	+10
847.1	10.6	13.80	18.35	19.33
882.1	45.6	14.36	15.22	15.59
917.1	80.6	12.04	11.59	16.04
952.1	115.6	12.24	17.37	18.61
987.1	150.6	14.18	15.59	18.98
1022.1	185.6	16.92	16.06	19.49
1057.1	220.6	13.05	18.00	18.97
1092.1	255.6	12.90	18.74	18.01
1127.1	290.6	12.92	18.00	17.53
1162.1	325.6	15.92	18.03	16.99
1197.1	360.6	17.72	16.58	16.15
1232.1	395.6	16.06	15.18	15.01
1267.1	430.6	15.49	16.05	15.21
1302.1	465.6	16.16	16.37	15.90
1332.1	495.6	16.62	15.42	14.88
1367.1	530.6	19.31	16.11	14.16
1397.1	560.6	19.31	15.74	13.78
1432.1	595.6	18.25	14.30	13.96
1462.1	625.6	14.14	13.00	13.39
1497.1	660.6	12.85	11.90	12.11
1527.1	690.6	12.39	11.50	11.65
1562.1	725.6	10.47	10.36	10.49
1592.1	755.6	9.34	9.63	9.84
1627.1	790.6	8.79	8.99	9.24
1657.1	820.6	8.27	8.54	8.80
1692.1	855.6	8.23	8.62	9.02
1722.1	885.6	8.34	9.14	9.75
1757.1	920.6	8.36	9.34	10.38
1787.1	950.6	8.42	9.68	10.50
1822.1	985.6	9.02	9.72	10.69
1852.1	1015.6	9.66	10.15	10.79
1887.1	1050.6	10.29	10.43	10.84
1917.1	1080.6	10.56	10.72	10.79
1952.1	1115.6	11.01	10.57	10.41
1982.1	1145.6	10.65	10.26	10.25
2017.1	1180.6	10.94	10.25	9.05
2047.1	1210.6	10.78	10.03	8.20
2082.1	1245.6	10.98	9.77	8.12
2112.1	1275.6	10.39	8.75	8.04
2147.1	1310.6	9.94	8.73	9.08

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=0dBm (dB)		
		@LO (dBm)		
		+4	+7	+10
847.1	10.6	0.56	0.35	0.24
882.1	45.6	0.59	0.41	0.30
917.1	80.6	0.69	0.52	0.41
952.1	115.6	0.88	0.64	0.44
987.1	150.6	1.04	0.70	0.47
1022.1	185.6	1.06	0.74	0.50
1057.1	220.6	1.11	0.73	0.47
1092.1	255.6	1.13	0.77	0.53
1127.1	290.6	1.25	0.83	0.60
1162.1	325.6	1.24	0.84	0.63
1197.1	360.6	1.28	0.89	0.67
1232.1	395.6	1.30	0.93	0.68
1267.1	430.6	1.36	0.96	0.72
1302.1	465.6	1.40	1.00	0.76
1332.1	495.6	1.42	1.03	0.78
1367.1	530.6	1.44	1.10	0.83
1397.1	560.6	1.58	1.23	0.97
1432.1	595.6	1.64	1.30	1.07
1462.1	625.6	1.65	1.36	1.14
1497.1	660.6	1.76	1.50	1.28
1527.1	690.6	1.75	1.51	1.32
1562.1	725.6	1.73	1.51	1.35
1592.1	755.6	1.70	1.48	1.36
1627.1	790.6	1.54	1.39	1.30
1657.1	820.6	1.48	1.31	1.23
1692.1	855.6	1.45	1.27	1.21
1722.1	885.6	1.30	1.16	1.13
1757.1	920.6	1.33	1.17	1.16
1787.1	950.6	1.24	1.10	1.13
1822.1	985.6	1.11	1.02	1.09
1852.1	1015.6	1.08	1.02	1.07
1887.1	1050.6	0.91	0.89	0.98
1917.1	1080.6	0.81	0.84	0.96
1952.1	1115.6	0.79	0.84	0.98
1982.1	1145.6	0.69	0.76	0.92
2017.1	1180.6	0.68	0.79	0.95
2047.1	1210.6	0.67	0.78	0.94
2082.1	1245.6	0.54	0.66	0.77
2112.1	1275.6	0.53	0.65	0.62
2147.1	1310.6	0.46	0.54	0.36

Frequency Mixer

ADE-ED10905/1

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=881.5MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=858.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=904.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
871.5	10.0	6.58	10.1	869.0	6.28	894.1	10.0	6.55
824.5	57.0	6.42	50.7	909.6	6.38	873.5	30.6	6.51
777.5	104.0	6.30	91.3	950.2	6.45	853.0	51.1	6.38
730.5	151.0	6.14	131.9	990.8	6.65	832.4	71.7	6.38
683.5	198.0	6.09	172.6	1031.5	6.84	811.9	92.2	6.31
636.5	245.0	6.09	213.2	1072.1	7.04	791.3	112.8	6.22
589.6	291.9	6.09	253.8	1112.7	7.21	770.8	133.3	6.17
542.6	338.9	6.05	294.4	1153.3	7.30	750.2	153.9	6.09
495.6	385.9	5.99	335.0	1193.9	7.40	729.6	174.5	6.12
448.6	432.9	6.01	375.6	1234.5	7.46	709.1	195.0	6.06
401.6	479.9	6.00	416.3	1275.2	7.54	688.5	215.6	6.09
354.6	526.9	5.99	456.9	1315.8	7.56	668.0	236.1	6.02
307.6	573.9	6.03	497.5	1356.4	7.61	647.4	256.7	6.06
260.6	620.9	6.08	538.1	1397.0	7.47	626.8	277.3	6.04
213.6	667.9	6.05	578.7	1437.6	7.36	606.3	297.8	6.04
166.6	714.9	6.19	599.0	1457.9	7.25	585.7	318.4	6.05
119.6	761.9	6.21	639.6	1498.5	6.98	565.2	338.9	6.00
72.7	808.8	6.34	659.9	1518.8	6.98	544.6	359.5	6.05
25.7	855.8	6.32	700.6	1559.5	6.91	524.1	380.0	5.99
34.3	915.8	6.38	720.9	1579.8	6.82	503.5	400.6	6.02
107.3	988.8	6.61	761.5	1620.4	6.92	482.9	421.2	5.97
180.4	1061.9	6.95	781.8	1640.7	7.08	462.4	441.7	5.96
253.4	1134.9	7.22	822.4	1681.3	7.15	441.8	462.3	5.92
326.4	1207.9	7.34	842.7	1701.6	7.25	421.3	482.8	5.90
399.4	1280.9	7.47	883.3	1742.2	7.60	400.7	503.4	5.98
472.4	1353.9	7.51	903.6	1762.5	7.77	380.1	524.0	5.96
545.4	1426.9	7.33	944.3	1803.2	8.12	359.6	544.5	6.00
618.4	1499.9	6.97	964.6	1823.5	8.26	339.0	565.1	6.00
667.1	1548.6	6.88	1005.2	1864.1	8.40	318.5	585.6	6.02
740.1	1621.6	6.92	1025.5	1884.4	8.49	297.9	606.2	6.06
788.8	1670.3	7.06	1066.1	1925.0	8.65	277.4	626.7	6.00
861.8	1743.3	7.57	1086.4	1945.3	8.63	256.8	647.3	6.08
910.4	1791.9	7.89	1127.0	1985.9	8.79	215.7	688.4	6.14
983.5	1865.0	8.31	1147.3	2006.2	9.10	195.1	709.0	6.06
1032.1	1913.6	8.62	1187.9	2046.8	9.30	154.0	750.1	6.14
1105.1	1986.6	8.85	1208.3	2067.2	9.22	133.4	770.7	6.25
1153.8	2035.3	9.08	1248.9	2107.8	9.60	92.3	811.8	6.28
1226.8	2108.3	9.69	1269.2	2128.1	9.99	71.8	832.3	6.31
1275.5	2157.0	10.05	1309.8	2168.7	10.25	30.7	873.4	6.39
1348.5	2230.0	10.78	1330.1	2189.0	10.19	10.1	894.0	6.24

REV. X2

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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
10.6	68.44	65.16	66.80	51.93	52.66	53.59
45.6	58.79	58.65	58.58	40.16	41.11	41.98
80.6	55.49	55.28	55.61	36.24	37.65	39.11
115.6	52.96	53.05	53.31	34.05	36.01	37.97
150.6	50.70	51.03	51.20	32.28	34.65	36.36
185.6	48.61	48.98	49.27	31.23	33.57	35.18
220.6	47.05	47.51	47.68	30.20	32.40	33.97
255.6	45.82	46.28	46.54	29.39	31.43	32.94
290.6	44.67	45.11	45.31	28.32	30.28	31.83
325.6	43.52	44.09	44.44	27.49	29.48	31.12
360.6	42.96	43.48	43.72	26.65	28.59	30.24
395.6	42.12	42.69	42.96	25.98	27.96	29.64
430.6	41.41	41.99	42.36	25.07	27.10	28.87
465.6	40.90	41.60	41.96	24.40	26.37	28.07
495.6	40.31	40.84	41.08	23.93	26.00	27.80
530.6	39.89	40.52	40.78	23.33	25.29	27.14
560.6	38.84	39.44	39.84	22.79	24.71	26.48
595.6	38.37	38.93	39.36	22.59	24.52	26.25
625.6	37.95	38.59	39.02	22.19	24.19	25.86
660.6	37.85	38.65	39.17	21.77	23.79	25.50
690.6	37.32	38.17	38.62	21.43	23.49	25.26
725.6	36.95	38.00	38.71	21.23	23.18	24.94
755.6	36.61	37.73	38.64	20.96	22.77	24.47
790.6	36.56	37.77	38.68	20.74	22.39	23.91
820.6	36.32	37.51	38.39	20.79	22.35	23.76
855.6	35.87	37.05	37.86	20.67	22.16	23.43
885.6	35.39	36.34	36.94	20.76	22.29	23.55
920.6	34.84	35.74	36.22	21.25	23.05	24.43
950.6	34.32	35.24	35.77	21.50	23.54	25.03
985.6	33.75	34.60	35.12	21.49	23.78	25.40
1015.6	33.34	34.24	34.80	21.66	24.14	25.79
1050.6	32.71	33.56	34.11	21.74	24.29	25.87
1080.6	32.08	32.87	33.36	21.81	24.25	25.62
1115.6	31.43	32.27	32.84	22.21	24.47	25.33
1145.6	31.06	31.97	32.70	22.46	24.47	24.82
1180.6	30.64	31.74	32.64	22.67	24.28	24.11
1210.6	30.29	31.39	32.44	23.03	24.08	23.37
1245.6	30.23	31.31	32.40	23.36	23.84	22.46
1275.6	30.37	31.43	32.83	23.50	23.49	21.92
1310.6	30.43	31.75	33.69	23.75	23.10	20.84

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
847.1	10.6	39.17	38.64	37.75
882.1	45.6	40.50	40.63	39.80
917.1	80.6	40.55	41.98	41.96
952.1	115.6	39.23	41.60	42.90
987.1	150.6	37.65	39.87	41.14
1022.1	185.6	35.36	36.77	37.56
1057.1	220.6	33.68	34.73	35.38
1092.1	255.6	31.66	32.31	32.90
1127.1	290.6	29.90	30.43	30.84
1162.1	325.6	28.64	29.09	29.37
1197.1	360.6	27.46	27.87	28.24
1232.1	395.6	26.50	26.77	27.10
1267.1	430.6	25.40	25.69	25.77
1302.1	465.6	24.58	24.64	24.63
1332.1	495.6	24.01	23.98	23.98
1367.1	530.6	23.68	23.72	23.76
1397.1	560.6	23.57	23.65	23.64
1432.1	595.6	23.74	23.78	23.92
1462.1	625.6	24.15	24.34	24.44
1497.1	660.6	24.81	24.96	25.14
1527.1	690.6	25.31	25.45	25.58
1562.1	725.6	26.48	26.62	26.67
1592.1	755.6	27.85	27.96	28.01
1627.1	790.6	28.74	28.63	28.50
1657.1	820.6	27.95	27.59	27.36
1692.1	855.6	26.84	26.27	25.80
1722.1	885.6	25.81	25.25	24.67
1757.1	920.6	23.96	23.47	22.95
1787.1	950.6	22.53	22.12	21.65
1822.1	985.6	21.19	20.94	20.60
1852.1	1015.6	20.17	20.00	19.80
1887.1	1050.6	19.01	18.91	18.81
1917.1	1080.6	18.22	18.21	18.13
1952.1	1115.6	17.30	17.26	17.30
1982.1	1145.6	16.66	16.53	16.53
2017.1	1180.6	15.67	15.56	15.50
2047.1	1210.6	15.20	15.03	14.91
2082.1	1245.6	14.78	14.59	14.35
2112.1	1275.6	14.35	14.16	13.78
2147.1	1310.6	14.11	13.93	13.53

Frequency Mixer

ADE-ED10905/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+4	+7	+10
847.1	10.6	1.45	1.37	1.32
882.1	45.6	1.39	1.32	1.28
917.1	80.6	1.38	1.29	1.24
952.1	115.6	1.35	1.26	1.24
987.1	150.6	1.26	1.19	1.20
1022.1	185.6	1.23	1.18	1.18
1057.1	220.6	1.19	1.18	1.20
1092.1	255.6	1.11	1.13	1.16
1127.1	290.6	1.11	1.12	1.15
1162.1	325.6	1.09	1.14	1.18
1197.1	360.6	1.05	1.12	1.16
1232.1	395.6	1.07	1.14	1.19
1267.1	430.6	1.13	1.20	1.25
1302.1	465.6	1.14	1.20	1.24
1332.1	495.6	1.16	1.23	1.27
1367.1	530.6	1.21	1.26	1.31
1397.1	560.6	1.22	1.26	1.29
1432.1	595.6	1.26	1.30	1.33
1462.1	625.6	1.37	1.40	1.43
1497.1	660.6	1.44	1.46	1.49
1527.1	690.6	1.55	1.57	1.60
1562.1	725.6	1.78	1.78	1.80
1592.1	755.6	1.90	1.89	1.90
1627.1	790.6	2.15	2.14	2.15
1657.1	820.6	2.40	2.39	2.39
1692.1	855.6	2.53	2.52	2.53
1722.1	885.6	2.78	2.78	2.79
1757.1	920.6	3.06	3.04	3.04
1787.1	950.6	3.11	3.08	3.08
1822.1	985.6	3.45	3.42	3.42
1852.1	1015.6	3.63	3.60	3.58
1887.1	1050.6	3.65	3.61	3.60
1917.1	1080.6	3.95	3.91	3.90
1952.1	1115.6	3.95	3.91	3.90
1982.1	1145.6	3.88	3.85	3.83
2017.1	1180.6	4.15	4.10	4.09
2047.1	1210.6	4.09	4.04	4.00
2082.1	1245.6	3.95	3.90	3.86
2112.1	1275.6	4.21	4.16	4.09
2147.1	1310.6	4.04	3.99	3.91

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+4	+7	+10
10.6	1.13	1.91	3.88
45.6	1.30	2.48	6.05
80.6	1.18	1.80	2.79
115.6	1.14	1.69	2.51
150.6	1.18	1.69	2.44
185.6	1.16	1.60	2.25
220.6	1.16	1.63	2.30
255.6	1.17	1.62	2.25
290.6	1.16	1.61	2.21
325.6	1.18	1.64	2.27
360.6	1.18	1.63	2.21
395.6	1.19	1.65	2.23
430.6	1.20	1.66	2.23
465.6	1.21	1.67	2.22
495.6	1.24	1.70	2.26
530.6	1.26	1.72	2.27
560.6	1.27	1.73	2.26
595.6	1.30	1.78	2.32
625.6	1.32	1.78	2.31
660.6	1.35	1.81	2.32
690.6	1.39	1.86	2.39
725.6	1.41	1.88	2.40
755.6	1.43	1.90	2.42
790.6	1.48	1.96	2.48
820.6	1.51	1.97	2.48
855.6	1.53	2.00	2.50
885.6	1.58	2.05	2.56
920.6	1.61	2.07	2.57
950.6	1.64	2.10	2.59
985.6	1.70	2.17	2.68
1015.6	1.74	2.21	2.71
1050.6	1.77	2.24	2.72
1080.6	1.84	2.31	2.80
1115.6	1.89	2.36	2.85
1145.6	1.91	2.38	2.85
1180.6	1.98	2.45	2.93
1210.6	2.03	2.50	2.97
1245.6	2.04	2.50	2.95
1275.6	2.11	2.57	3.03
1310.6	2.17	2.63	3.07

IF (OUT) (MHz)	IF VSWR @LO=45MHz (:1)		
	@LO (dBm)		
	+4	+7	+10
55.1	1.05	1.24	1.42
80.1	1.06	1.29	1.49
105.1	1.09	1.31	1.51
130.1	1.10	1.31	1.51
155.1	1.07	1.29	1.49
180.1	1.06	1.28	1.48
205.1	1.08	1.27	1.46
230.1	1.10	1.24	1.41
255.1	1.12	1.24	1.41
280.1	1.13	1.27	1.44
300.1	1.14	1.32	1.51
325.1	1.14	1.30	1.48
345.1	1.14	1.23	1.38
370.1	1.14	1.24	1.40
390.1	1.19	1.33	1.49
415.1	1.21	1.33	1.49
435.1	1.17	1.25	1.39
460.1	1.16	1.24	1.39
480.1	1.24	1.32	1.47
505.1	1.26	1.34	1.47
525.1	1.22	1.29	1.42
550.1	1.19	1.27	1.42
570.1	1.26	1.30	1.42
595.1	1.30	1.34	1.44
615.1	1.29	1.33	1.44
640.1	1.25	1.32	1.44
660.1	1.27	1.30	1.40
685.1	1.32	1.33	1.42
705.1	1.35	1.37	1.45
730.1	1.32	1.34	1.43
750.1	1.29	1.32	1.41
775.1	1.33	1.33	1.41
795.1	1.39	1.36	1.41
820.1	1.35	1.33	1.38
840.1	1.33	1.34	1.41
865.1	1.34	1.33	1.40
885.1	1.38	1.33	1.36
910.1	1.35	1.29	1.31
930.1	1.37	1.34	1.38
955.1	1.36	1.33	1.37

REV. X2

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	15	34	22	53	24	57	26	55	29	56
1	-	35	+0	38	11	40	19	42	30	46	52	51
2	>90	62	58	62	61	66	64	>69	65	>69	64	>69
3	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
4	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
5	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
6	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
7	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
8	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
9	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
10	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 881.5 MHz; -15.00 dBm.
LO IN: 45 MHz; +7.00 dBm
IF OUT: 836.5 MHz; -21.44 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	26	45	35	57	37	61	40	64	44	64
1	-	34	+0	38	11	40	19	44	28	48	46	53
2	72	54	54	54	58	59	65	65	71	76	66	74
3	>90	62	64	67	58	74	55	77	54	70	54	68
4	>90	>79	72	>79	72	>79	74	>79	76	>79	75	>79
5	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
6	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
7	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
8	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
9	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
10	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 881.5 MHz; -5.00 dBm.
LO IN: 45 MHz; +7.00 dBm
IF OUT: 836.5 MHz; -11.45 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.