

Frequency Mixer

ADE-1L

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)		
		@LO (dBm)		
		0	+3	+6
2.0	32.0	6.28	5.88	5.48
5.0	35.0	5.74	5.44	5.14
10.0	40.0	5.62	5.32	4.92
50.4	80.4	6.82	6.00	5.62
90.8	120.8	6.82	6.02	5.64
110.9	140.9	6.79	6.00	5.62
151.3	181.3	6.76	5.99	5.65
171.5	201.5	6.70	5.98	5.66
211.8	241.8	6.68	6.00	5.68
232.0	262.0	6.66	6.01	5.71
272.3	302.3	6.69	6.06	5.73
292.5	322.5	6.69	6.04	5.73
332.8	362.8	6.74	6.09	5.78
353.0	383.0	6.76	6.15	5.81
393.3	423.3	6.80	6.21	5.84
453.8	483.8	6.88	6.29	5.97
474.0	504.0	6.91	6.27	5.98
514.3	544.3	7.02	6.32	5.98
534.5	564.5	7.07	6.36	6.00
574.8	604.8	7.32	6.54	6.04
595.0	625.0	7.46	6.69	6.13
635.4	665.4	7.77	7.07	6.44
655.5	685.5	7.91	7.22	6.58
695.9	725.9	8.26	7.54	6.93
756.4	786.4	8.70	7.94	7.36
776.5	806.5	8.87	8.11	7.53
816.9	846.9	8.99	8.26	7.69
837.0	867.0	9.06	8.31	7.75
877.4	907.4	9.14	8.36	7.79
897.6	927.6	9.11	8.31	7.73
937.9	967.9	9.24	8.35	7.73
958.1	988.1	9.39	8.39	7.75
998.4	1028.4	9.47	8.39	7.76
1018.6	1048.6	9.59	8.42	7.84
1058.9	1088.9	9.88	8.63	8.08
1079.1	1109.1	9.90	8.72	8.23
1119.4	1149.4	10.34	9.10	8.61
1139.6	1169.6	10.79	9.37	8.85
1179.9	1209.9	11.41	9.84	9.34
1200.1	1230.1	11.67	10.07	9.56

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		0	+3	+6
10.1	40.1	25.46	20.71	26.68
50.4	80.4	20.07	21.62	18.40
90.8	120.8	24.82	21.06	20.06
110.9	140.9	21.44	21.23	27.99
151.3	181.3	30.54	24.17	26.06
171.5	201.5	21.78	18.56	20.59
211.8	241.8	21.01	23.19	20.97
232.0	262.0	18.26	17.17	18.99
272.3	302.3	37.25	19.10	23.66
292.5	322.5	19.48	15.80	14.82
332.8	362.8	29.38	15.64	14.61
353.0	383.0	18.46	21.54	15.73
393.3	423.3	19.56	16.83	15.87
413.5	443.5	21.99	16.37	16.25
453.8	483.8	16.11	13.51	12.69
474.0	504.0	17.91	13.10	11.57
514.3	544.3	13.20	13.67	12.57
534.5	564.5	11.42	13.27	13.43
574.8	604.8	7.92	11.15	14.18
595.0	625.0	6.64	9.15	14.05
635.4	665.4	4.50	5.62	9.50
655.5	685.5	3.79	4.48	7.19
695.9	725.9	3.68	4.08	5.64
716.0	746.0	3.95	4.44	5.70
756.4	786.4	4.54	5.19	6.33
776.5	806.5	4.95	5.48	6.61
816.9	846.9	6.17	6.79	8.02
837.0	867.0	6.88	8.12	9.59
877.4	907.4	8.77	9.97	12.72
897.6	927.6	10.17	10.59	14.01
937.9	967.9	12.01	12.44	14.89
958.1	988.1	11.93	14.49	17.78
998.4	1028.4	12.16	13.51	16.27
1018.6	1048.6	11.73	13.27	14.23
1058.9	1088.9	10.95	12.09	13.62
1079.1	1109.1	10.58	11.55	12.99
1119.4	1149.4	9.65	11.34	11.13
1139.6	1169.6	8.95	10.07	10.79
1179.9	1209.9	8.48	9.53	10.22
1200.1	1230.1	8.51	9.17	11.05

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=0dBm (dB)		
		@LO (dBm)		
		0	+3	+6
10.1	40.1	1.34	0.82	0.56
50.4	80.4	1.35	0.78	0.48
90.8	120.8	1.34	0.78	0.51
110.9	140.9	1.35	0.81	0.51
151.3	181.3	1.29	0.78	0.48
171.5	201.5	1.29	0.78	0.47
211.8	241.8	1.27	0.70	0.44
232.0	262.0	1.31	0.73	0.45
272.3	302.3	1.26	0.72	0.47
292.5	322.5	1.23	0.67	0.46
332.8	362.8	1.23	0.65	0.42
353.0	383.0	1.21	0.66	0.43
393.3	423.3	1.21	0.65	0.46
413.5	443.5	1.27	0.69	0.46
453.8	483.8	1.33	0.75	0.50
474.0	504.0	1.39	0.81	0.51
514.3	544.3	1.39	0.89	0.54
534.5	564.5	1.42	0.92	0.58
574.8	604.8	1.49	1.08	0.70
595.0	625.0	1.51	1.08	0.77
635.4	665.4	1.55	1.17	0.97
655.5	685.5	1.55	1.12	0.98
695.9	725.9	1.42	1.04	0.84
716.0	746.0	1.36	0.99	0.83
756.4	786.4	1.22	0.92	0.74
776.5	806.5	1.20	0.86	0.66
816.9	846.9	1.28	0.89	0.72
837.0	867.0	1.22	0.85	0.69
877.4	907.4	1.32	0.92	0.73
897.6	927.6	1.34	0.96	0.76
937.9	967.9	1.39	1.07	0.81
958.1	988.1	1.45	1.11	0.80
998.4	1028.4	1.50	1.20	0.85
1018.6	1048.6	1.45	1.14	0.83
1058.9	1088.9	1.53	1.11	0.76
1079.1	1109.1	1.51	1.08	0.68
1119.4	1149.4	1.42	1.00	0.64
1139.6	1169.6	1.43	1.08	0.65
1179.9	1209.9	1.37	1.00	0.62
1200.1	1230.1	1.28	0.97	0.57

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ADE-1L

100817

Page 1 of 5



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant

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Frequency Mixer

ADE-1L

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=250.1MHz (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)=500.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+3			+3			+3
240.0	10.1	5.99	20.2	10.1	5.79	490.0	10.1	6.38
234.1	16.0	6.00	32.2	22.1	5.55	478.0	22.1	6.36
228.2	21.9	5.99	44.2	34.1	5.53	466.0	34.1	6.33
222.3	27.8	5.98	56.2	46.1	5.48	454.0	46.1	6.32
216.4	33.7	5.97	68.2	58.1	5.47	442.0	58.1	6.30
210.5	39.6	5.94	80.2	70.1	5.49	430.0	70.1	6.32
204.6	45.5	5.94	92.2	82.1	5.48	418.0	82.1	6.26
198.7	51.4	5.91	104.2	94.1	5.52	406.0	94.1	6.18
192.8	57.3	5.90	116.2	106.1	5.49	394.0	106.1	6.14
186.9	63.2	5.89	128.2	118.1	5.56	382.0	118.1	6.13
181.0	69.1	5.88	140.2	130.1	5.54	370.0	130.1	6.09
175.1	75.0	5.89	152.2	142.1	5.51	358.0	142.1	6.09
169.2	80.9	5.85	164.2	154.1	5.54	346.0	154.1	6.08
163.3	86.8	5.85	176.2	166.1	5.53	334.0	166.1	6.07
157.4	92.7	5.86	188.2	178.1	5.56	322.0	178.1	6.05
151.5	98.6	5.84	200.2	190.1	5.54	310.0	190.1	6.04
145.6	104.5	5.83	212.2	202.1	5.56	298.0	202.1	6.03
139.7	110.4	5.82	224.2	214.1	5.60	286.0	214.1	6.01
133.8	116.3	5.81	236.2	226.1	5.55	274.0	226.1	6.00
127.9	122.2	5.80	248.2	238.1	5.61	262.0	238.1	6.02
122.1	128.0	5.79	260.2	250.1	5.63	250.0	250.1	5.62
116.2	133.9	5.77	272.2	262.1	5.62	238.0	262.1	5.99
110.3	139.8	5.76	284.2	274.1	5.62	226.0	274.1	5.98
104.4	145.7	5.75	296.2	286.1	5.68	214.0	286.1	6.06
98.5	151.6	5.78	308.2	298.1	5.68	202.0	298.1	6.07
92.6	157.5	5.78	320.2	310.1	5.70	190.0	310.1	6.09
86.7	163.4	5.77	332.2	322.1	5.70	178.0	322.1	6.10
80.8	169.3	5.78	344.2	334.1	5.74	166.0	334.1	6.12
74.9	175.2	5.74	356.2	346.1	5.73	154.0	346.1	6.14
69.0	181.1	5.76	368.2	358.1	5.73	142.0	358.1	6.18
63.1	187.0	5.77	380.2	370.1	5.71	130.0	370.1	6.17
57.2	192.9	5.73	392.2	382.1	5.72	118.0	382.1	6.20
51.3	198.8	5.78	404.2	394.1	5.80	106.0	394.1	6.19
45.4	204.7	5.77	416.2	406.1	6.16	94.0	406.1	6.17
39.5	210.6	5.78	428.2	418.1	6.24	82.0	418.1	6.18
33.6	216.5	5.78	440.2	430.1	5.94	70.0	430.1	6.27
27.7	222.4	5.81	452.2	442.1	5.92	58.0	442.1	6.25
21.8	228.3	5.79	464.2	454.1	5.89	46.0	454.1	6.23
15.9	234.2	5.87	488.2	478.1	5.91	22.0	478.1	6.36
10.0	240.1	6.09	500.2	490.1	6.01	10.0	490.1	6.28

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100817

Page 2 of 5



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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	0	+3	+6	0	+3	+6
2.0	67.0	68.8	68.2	57.6	57.2	55.8
5.0	67.1	68.3	70.0	56.4	56.4	54.9
10.0	65.5	68.0	68.9	55.2	55.4	53.8
50.4	59.47	63.85	68.78	58.55	56.83	55.58
90.8	54.77	58.66	63.27	53.39	51.80	50.80
110.9	53.17	56.70	60.67	51.53	50.16	49.34
151.3	49.81	53.15	57.34	48.78	47.54	46.76
171.5	48.94	52.21	56.31	47.62	46.56	45.80
211.8	47.23	50.27	54.06	45.78	44.89	44.37
232.0	46.10	49.19	52.80	44.96	44.26	43.62
272.3	44.29	47.35	50.62	43.60	42.93	42.21
292.5	43.26	46.27	49.37	43.40	42.87	42.08
332.8	41.98	44.50	47.25	42.40	41.81	40.79
353.0	41.17	43.44	45.83	42.12	41.45	40.27
393.3	40.25	42.15	43.94	41.13	40.42	39.68
453.8	39.00	40.89	42.37	40.34	38.05	36.46
474.0	38.72	40.40	41.61	40.78	37.97	35.92
514.3	38.45	40.10	41.01	42.12	38.10	35.29
534.5	38.05	39.76	40.61	42.91	38.40	35.16
574.8	36.80	38.74	39.74	42.09	38.52	34.74
595.0	36.17	38.19	39.26	40.62	37.98	34.26
635.4	34.59	36.52	37.64	36.75	35.17	33.03
655.5	34.34	36.18	37.22	35.41	33.69	32.10
695.9	32.95	34.65	35.64	33.48	31.35	29.93
756.4	30.89	32.40	33.42	31.87	29.61	27.84
776.5	30.46	31.96	32.96	31.40	29.11	27.25
816.9	29.60	31.15	32.21	30.15	28.19	26.34
837.0	29.42	30.90	31.89	29.52	27.74	25.91
877.4	28.96	30.36	31.28	28.43	27.20	25.44
897.6	28.46	29.90	30.84	27.62	26.82	25.14
937.9	28.17	29.42	30.10	26.12	26.10	24.48
958.1	27.81	28.96	29.46	25.18	25.53	23.92
998.4	27.89	28.78	28.86	23.27	24.32	22.85
1018.6	27.66	28.27	28.06	22.33	23.46	22.03
1058.9	27.75	27.77	27.09	20.60	22.05	21.02
1079.1	27.63	27.46	26.58	19.50	21.13	20.54
1119.4	27.63	26.72	25.41	17.82	19.47	19.37
1139.6	27.77	26.50	24.98	17.04	18.72	18.86
1179.9	27.85	25.98	24.14	15.54	17.19	17.83
1200.1	27.54	25.51	23.63	14.93	16.55	17.27

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		0	+3	+6
10.1	40.1	45.79	52.75	40.38
50.4	80.4	32.33	32.38	32.57
90.8	120.8	27.80	27.99	28.12
110.9	140.9	26.39	26.63	26.76
151.3	181.3	24.27	24.53	24.70
171.5	201.5	23.52	23.80	24.00
211.8	241.8	22.47	22.81	22.99
232.0	262.0	22.08	22.47	22.68
272.3	302.3	21.63	22.08	22.43
292.5	322.5	21.54	22.01	22.37
332.8	362.8	21.59	22.10	22.41
353.0	383.0	21.74	22.28	22.60
393.3	423.3	22.13	22.90	23.34
413.5	443.5	22.19	23.07	23.61
453.8	483.8	22.21	23.27	23.99
474.0	504.0	21.90	22.93	23.55
514.3	544.3	20.76	21.49	21.87
534.5	564.5	20.14	20.62	20.90
574.8	604.8	18.93	19.07	19.12
595.0	625.0	18.45	18.44	18.39
635.4	665.4	17.67	17.52	17.36
655.5	685.5	17.39	17.22	17.05
695.9	725.9	17.06	16.84	16.68
716.0	746.0	16.99	16.73	16.55
756.4	786.4	16.88	16.60	16.35
776.5	806.5	16.89	16.61	16.36
816.9	846.9	16.59	16.39	16.18
837.0	867.0	16.35	16.20	16.00
877.4	907.4	15.68	15.64	15.46
897.6	927.6	15.25	15.23	15.07
937.9	967.9	14.35	14.40	14.34
958.1	988.1	13.85	13.94	13.96
998.4	1028.4	12.94	13.08	13.24
1018.6	1048.6	12.45	12.63	12.81
1058.9	1088.9	11.63	11.81	11.91
1079.1	1109.1	11.20	11.33	11.35
1119.4	1149.4	10.36	10.35	10.26
1139.6	1169.6	9.94	9.85	9.71
1179.9	1209.9	9.17	8.91	8.64
1200.1	1230.1	8.81	8.47	8.14

REV. X2

ADE-1L

100817

Page 3 of 5



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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)				IF (OUT) (MHz)	IF VSWR @LO=500.1MHz (:1)			
		@LO (dBm)				@LO (dBm)					@LO (dBm)			
		0	+3	+6		0	+3	+6	0		+3	+6		
2.0	32.0	1.34	1.32	1.32	2.0	1.15	1.67	2.68	0.1	2.01	1.66	1.45		
5.0	35.0	1.23	1.19	1.15	5.0	1.16	1.66	2.68	0.2	1.97	1.63	1.43		
10.0	40.0	1.20	1.14	1.08	10.0	1.16	1.66	2.68	0.5	2.04	1.69	1.48		
50.4	80.4	1.34	1.17	1.06	50.4	1.11	1.42	2.13	1.0	2.14	1.76	1.52		
90.8	120.8	1.41	1.23	1.12	90.8	1.11	1.42	2.10	5.0	2.08	1.71	1.50		
110.9	140.9	1.37	1.18	1.08	110.9	1.12	1.39	2.03	10.0	2.12	1.73	1.51		
151.3	181.3	1.36	1.20	1.11	151.3	1.11	1.42	2.09	22.3	2.06	1.77	1.61		
171.5	201.5	1.38	1.21	1.11	171.5	1.11	1.43	2.11	34.5	1.99	1.73	1.51		
211.8	241.8	1.28	1.13	1.07	211.8	1.12	1.44	2.09	46.8	1.97	1.67	1.51		
232.0	262.0	1.29	1.15	1.10	232.0	1.12	1.47	2.15	59.0	1.92	1.63	1.47		
272.3	302.3	1.32	1.18	1.12	272.3	1.15	1.51	2.18	71.3	1.93	1.67	1.49		
292.5	322.5	1.30	1.16	1.11	292.5	1.16	1.51	2.15	83.5	1.96	1.68	1.52		
332.8	362.8	1.30	1.18	1.14	332.8	1.19	1.55	2.20	95.8	2.02	1.73	1.56		
353.0	383.0	1.29	1.17	1.14	353.0	1.21	1.58	2.25	108.0	2.03	1.75	1.56		
393.3	423.3	1.30	1.21	1.19	393.3	1.27	1.61	2.23	120.3	2.04	1.76	1.58		
413.5	443.5	1.30	1.21	1.19	413.5	1.28	1.66	2.31	132.5	2.02	1.74	1.57		
453.8	483.8	1.30	1.22	1.21	453.8	1.34	1.73	2.40	144.8	2.04	1.74	1.58		
474.0	504.0	1.31	1.24	1.23	474.0	1.38	1.74	2.38	157.0	2.03	1.74	1.57		
514.3	544.3	1.31	1.21	1.21	514.3	1.44	1.80	2.43	181.5	2.06	1.77	1.60		
534.5	564.5	1.30	1.21	1.22	534.5	1.47	1.83	2.44	193.8	2.11	1.81	1.64		
574.8	604.8	1.36	1.25	1.23	574.8	1.55	1.89	2.45	206.0	2.15	1.84	1.67		
595.0	625.0	1.38	1.25	1.22	595.0	1.58	1.95	2.53	218.3	2.17	1.86	1.67		
635.4	665.4	1.45	1.33	1.27	635.4	1.65	2.06	2.66	230.5	2.15	1.85	1.67		
655.5	685.5	1.51	1.39	1.32	655.5	1.69	2.10	2.71	242.8	2.12	1.82	1.65		
695.9	725.9	1.63	1.52	1.44	695.9	1.74	2.15	2.78	255.0	2.10	1.80	1.64		
716.0	746.0	1.73	1.62	1.55	716.0	1.77	2.16	2.78	267.3	2.09	1.80	1.63		
756.4	786.4	1.99	1.87	1.79	756.4	1.85	2.22	2.83	279.5	2.11	1.81	1.65		
776.5	806.5	2.07	1.96	1.88	776.5	1.88	2.25	2.86	291.8	2.12	1.82	1.66		
816.9	846.9	2.33	2.22	2.15	816.9	1.96	2.31	2.91	304.0	2.13	1.84	1.67		
837.0	867.0	2.45	2.34	2.26	837.0	2.01	2.35	2.95	328.5	2.13	1.85	1.67		
877.4	907.4	2.55	2.45	2.37	877.4	2.08	2.37	2.92	340.8	2.13	1.85	1.68		
897.6	927.6	2.70	2.60	2.52	897.6	2.12	2.36	2.89	353.0	2.13	1.84	1.68		
937.9	967.9	2.83	2.70	2.62	937.9	2.23	2.44	2.92	365.3	2.11	1.84	1.68		
958.1	988.1	2.84	2.70	2.62	958.1	2.27	2.44	2.92	377.5	2.12	1.85	1.69		
998.4	1028.4	3.05	2.90	2.82	998.4	2.36	2.46	2.90	389.8	2.15	1.88	1.72		
1018.6	1048.6	3.12	2.95	2.86	1018.6	2.42	2.52	2.96	402.0	2.19	1.92	1.76		
1058.9	1088.9	3.14	2.95	2.87	1058.9	2.57	2.60	3.01	426.5	2.21	1.94	1.77		
1079.1	1109.1	3.21	3.03	2.95	1079.1	2.65	2.63	2.99	438.8	2.19	1.92	1.76		
1119.4	1149.4	3.26	3.04	2.95	1119.4	2.86	2.82	3.16	451.0	2.17	1.90	1.75		
1139.6	1169.6	3.34	3.08	2.97	1139.6	3.00	2.93	3.24	463.3	2.16	1.90	1.76		
1179.9	1209.9	3.43	3.10	2.96	1179.9	3.21	3.08	3.31	487.8	2.22	1.96	1.81		
1200.1	1230.1	3.38	3.03	2.89	1200.1	3.27	3.16	3.38	500.0	2.18	2.06	2.01		

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Page 4 of 5



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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	18	33	21	27	21	46	36	47	39	57
1	-	16	0	27	14	33	23	38	39	46	41	61
2	107	73	62	63	62	61	58	73	54	70	64	69
3	111	63	70	69	61	86	57	73	59	79	64	83
4	116	89	95	89	85	78	85	83	84	89	92	102
5	121	94	87	96	84	83	77	89	86	97	84	94
6	131	103	102	92	106	96	81	91	92	105	116	101
7	114	101	101	104	98	96	89	77	86	100	101	102
8	118	100	106	114	113	98	101	99	70	93	91	98
9	117	110	108	108	113	105	97	93	100	68	103	92
10	128	107	100	111	104	97	116	97	101	96	67	90
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 250.1 MHz; -15.00 dBm.
LO IN: 280.01 MHz; +3.00 dBm
IF OUT: 29.91 MHz; -20.89 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	27	42	33	40	34	54	52	72	59	70
1	-	17	0	28	14	37	24	41	43	52	52	66
2	98	58	50	58	52	63	51	57	48	72	61	67
3	93	45	47	49	50	53	48	51	52	57	55	64
4	90	68	70	69	79	66	77	65	70	71	66	80
5	93	70	67	67	58	69	54	64	53	77	56	73
6	97	83	88	81	93	96	77	87	78	82	79	81
7	93	79	77	86	73	87	74	75	70	74	69	76
8	96	95	92	89	94	88	103	93	89	92	95	92
9	97	102	89	104	81	100	81	92	89	71	96	89
10	95	103	101	103	107	100	97	90	96	94	83	95
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 250.1 MHz; -5.00 dBm.
LO IN: 280.01 MHz; +3.00 dBm
IF OUT: 29.91 MHz; -11.01 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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REV. X2
ADE-1L
100817
Page 5 of 5