

Frequency Mixer

ROK-186MH+

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=+9dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+10	+13	+16			+10	+13	+16			+10	+13	+16
2.0	32.0	7.20	6.50	6.10	10.1	40.1	24.05	22.83	22.32	10.1	40.1	0.42	0.13	0.05
5.0	35.0	7.10	6.40	6.10	110.4	140.4	19.18	20.60	20.33	110.4	140.4	0.19	0.04	0.02
10.0	40.0	7.00	6.30	6.00	210.7	240.7	18.10	18.90	21.47	210.7	240.7	0.23	0.04	0.02
110.4	140.4	7.26	6.45	5.92	310.9	340.9	16.89	18.88	21.84	310.9	340.9	0.02	-0.05	-0.03
210.7	240.7	7.26	6.48	5.96	411.2	441.2	18.01	20.84	25.18	411.2	441.2	0.13	-0.03	0.00
310.9	340.9	7.66	6.76	6.12	511.5	541.5	17.97	21.38	25.84	511.5	541.5	0.08	-0.01	0.03
411.2	441.2	7.62	6.73	6.10	611.8	641.8	18.43	22.15	23.13	611.8	641.8	0.06	0.02	0.04
511.5	541.5	7.87	6.87	6.16	712.1	742.1	17.99	21.59	22.66	712.1	742.1	0.12	0.11	0.08
611.8	641.8	7.92	6.81	6.13	792.3	822.3	19.13	22.04	23.24	792.3	822.3	0.22	0.16	0.08
712.1	742.1	7.82	6.75	6.09	892.6	922.6	19.25	21.46	22.11	892.6	922.6	0.26	0.12	0.07
792.3	822.3	7.71	6.68	6.09	972.8	1002.8	19.12	20.00	21.76	972.8	1002.8	0.30	0.12	0.09
892.6	922.6	7.61	6.67	6.11	1073.1	1103.1	18.57	19.68	21.38	1073.1	1103.1	0.36	0.15	0.10
972.8	1002.8	7.47	6.59	6.05	1153.3	1183.3	19.28	20.58	21.84	1153.3	1183.3	0.48	0.14	0.10
1073.1	1103.1	7.32	6.50	6.00	1253.6	1283.6	20.01	20.78	21.74	1253.6	1283.6	0.53	0.18	0.10
1153.3	1183.3	7.16	6.40	5.93	1333.8	1363.8	20.85	21.51	22.09	1333.8	1363.8	0.55	0.19	0.11
1253.6	1283.6	7.06	6.30	5.89	1434.1	1464.1	19.88	22.06	22.61	1434.1	1464.1	0.57	0.18	0.10
1434.1	1464.1	7.10	6.33	5.89	1514.3	1544.3	21.20	24.16	24.21	1514.3	1544.3	0.54	0.17	0.08
1514.3	1544.3	7.28	6.46	5.99	1614.6	1644.6	22.01	24.68	23.91	1614.6	1644.6	0.53	0.17	0.08
1614.6	1644.6	7.42	6.53	6.05	1694.8	1724.8	23.60	27.48	25.47	1694.8	1724.8	0.44	0.18	0.11
1694.8	1724.8	7.65	6.73	6.19	1795.1	1825.1	22.30	30.30	36.48	1795.1	1825.1	0.24	0.15	0.14
1795.1	1825.1	8.09	7.06	6.45	1875.3	1905.3	21.30	26.14	27.57	1875.3	1905.3	0.18	0.14	0.14
1875.3	1905.3	8.29	7.15	6.54	1975.6	2005.6	20.55	21.66	21.35	1975.6	2005.6	0.12	0.17	0.19
1975.6	2005.6	8.34	7.16	6.49	2055.8	2085.8	19.62	20.63	20.45	2055.8	2085.8	0.19	0.22	0.23
2055.8	2085.8	8.17	7.11	6.43	2156.1	2186.1	18.19	18.56	19.49	2156.1	2186.1	0.32	0.29	0.31
2156.1	2186.1	8.00	7.01	6.32	2236.3	2266.3	17.86	18.16	18.67	2236.3	2266.3	0.38	0.30	0.32
2236.3	2266.3	7.87	6.95	6.30	2336.6	2366.6	17.36	17.71	18.52	2336.6	2366.6	0.43	0.31	0.31
2336.6	2366.6	7.79	6.95	6.32	2416.8	2446.8	17.37	17.72	18.36	2416.8	2446.8	0.50	0.37	0.38
2416.8	2446.8	7.69	6.88	6.32	2517.1	2547.1	17.38	18.24	19.53	2517.1	2547.1	0.49	0.36	0.39
2517.1	2547.1	7.73	6.95	6.42	2597.3	2627.3	17.53	18.39	19.95	2597.3	2627.3	0.49	0.33	0.35
2597.3	2627.3	7.76	7.02	6.48	2697.6	2727.6	17.67	18.65	19.63	2697.6	2727.6	0.51	0.32	0.31
2697.6	2727.6	7.71	7.02	6.53	2777.8	2807.8	17.53	18.87	19.84	2777.8	2807.8	0.54	0.31	0.28
2878.1	2908.1	7.84	7.15	6.71	2878.1	2908.1	18.72	19.66	20.57	2878.1	2908.1	0.53	0.29	0.26
2958.3	2988.3	7.87	7.21	6.78	2958.3	2988.3	18.97	20.23	20.78	2958.3	2988.3	0.57	0.29	0.24
3058.6	3088.6	7.96	7.32	6.93	3058.6	3088.6	19.76	20.32	21.60	3058.6	3088.6	0.59	0.29	0.21
3138.8	3168.8	8.10	7.46	7.07	3138.8	3168.8	20.66	21.87	22.70	3138.8	3168.8	0.62	0.27	0.19
3239.1	3269.1	8.35	7.69	7.30	3239.1	3269.1	21.57	23.81	23.61	3239.1	3269.1	0.65	0.30	0.19
3319.3	3349.3	8.63	8.01	7.59	3319.3	3349.3	22.07	24.00	24.23	3319.3	3349.3	0.62	0.28	0.17
3419.6	3449.6	9.17	8.49	8.02	3419.6	3449.6	24.02	23.97	23.46	3419.6	3449.6	0.53	0.25	0.20
3499.8	3529.8	9.54	8.80	8.30	3499.8	3529.8	24.19	21.84	22.17	3499.8	3529.8	0.51	0.28	0.28
3600.1	3630.1	10.16	9.26	8.73	3600.1	3630.1	22.98	21.38	22.32	3600.1	3630.1	0.52	0.39	0.44



Frequency Mixer

ROK-186MH+

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1250.1MHz (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)=2500.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+13			+13			+13
1000.0	250.1	7.05	10.0	20.1	6.20	1000.0	1500.1	7.15
979.8	270.3	6.99	30.2	40.3	6.14	979.8	1520.3	7.18
959.6	290.5	7.04	50.4	60.5	6.31	959.6	1540.5	7.19
939.4	310.7	7.05	70.6	80.7	6.29	939.4	1560.7	7.17
919.2	330.9	6.96	90.8	100.9	6.29	919.2	1580.9	7.19
899.0	351.1	6.97	111.0	121.1	6.37	899.0	1601.1	7.15
878.8	371.3	7.05	131.2	141.3	6.28	878.8	1621.3	7.18
858.6	391.5	6.92	151.4	161.5	6.30	858.6	1641.5	7.14
838.4	411.7	6.93	171.6	181.7	6.34	838.4	1661.7	7.10
818.2	431.9	7.00	191.8	201.9	6.39	818.2	1681.9	7.07
798.0	452.1	6.90	212.0	222.1	6.31	798.0	1702.1	7.03
777.8	472.3	6.90	232.2	242.3	6.28	777.8	1722.3	7.03
757.6	492.5	6.91	252.4	262.5	6.39	757.6	1742.5	6.96
737.3	512.8	6.89	272.7	282.8	6.32	737.3	1762.8	6.98
717.1	533.0	6.82	292.9	303.0	6.31	717.1	1783.0	6.93
696.9	553.2	6.84	313.1	323.2	6.35	696.9	1803.2	6.90
676.7	573.4	6.84	333.3	343.4	6.38	676.7	1823.4	6.90
656.5	593.6	6.72	353.5	363.6	6.28	656.5	1843.6	6.83
636.3	613.8	6.78	373.7	383.8	6.38	636.3	1863.8	6.83
616.1	634.0	6.72	393.9	404.0	6.42	616.1	1884.0	6.75
575.7	674.4	6.73	434.3	444.4	6.38	575.7	1924.4	6.71
555.5	694.6	6.65	454.5	464.6	6.41	555.5	1944.6	6.65
515.1	735.0	6.63	494.9	505.0	6.36	515.1	1985.0	6.58
494.9	755.2	6.62	515.1	525.2	6.37	494.9	2005.2	6.61
454.5	795.6	6.55	555.5	565.6	6.33	454.5	2045.6	6.59
434.3	815.8	6.60	575.7	585.8	6.45	434.3	2065.8	6.62
393.9	856.2	6.54	616.1	626.2	6.35	393.9	2106.2	6.62
373.7	876.4	6.50	636.3	646.4	6.46	373.7	2126.4	6.60
333.3	916.8	6.51	676.7	686.8	6.44	333.3	2166.8	6.60
313.1	937.0	6.47	696.9	707.0	6.45	313.1	2187.0	6.58
272.7	977.4	6.42	737.3	747.4	6.50	272.7	2227.4	6.61
252.4	997.7	6.46	757.6	767.7	6.49	252.4	2247.7	6.65
212.0	1038.1	6.38	798.0	808.1	6.51	212.0	2288.1	6.66
191.8	1058.3	6.40	818.2	828.3	6.54	191.8	2308.3	6.72
151.4	1098.7	6.39	858.6	868.7	6.55	151.4	2348.7	6.74
131.2	1118.9	6.33	878.8	888.9	6.61	131.2	2368.9	6.73
90.8	1159.3	6.34	919.2	929.3	6.60	90.8	2409.3	6.74
70.6	1179.5	6.27	939.4	949.5	6.63	70.6	2429.5	6.74
30.2	1219.9	6.25	979.8	989.9	6.66	30.2	2469.9	6.80
10.0	1240.1	6.22	1000.0	1010.1	6.69	10.0	2490.1	6.77



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ROK-186MH+

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+10	+13	+16	+10	+13	+16
2.0	28.60	31.80	35.20	35.20	37.80	40.20
5.0	31.00	34.00	37.20	40.02	43.60	46.40
10.0	31.10	34.00	36.90	41.80	45.60	49.00
110.4	30.45	33.39	36.47	40.13	44.36	48.60
210.7	30.83	33.94	36.92	40.27	44.92	49.37
310.9	31.33	34.36	37.00	40.46	45.46	50.37
411.2	31.80	35.05	37.46	41.16	47.08	51.13
511.5	32.56	35.88	37.91	41.69	48.23	50.83
611.8	33.66	37.54	38.81	42.19	48.48	49.46
712.1	35.00	39.56	39.20	42.45	48.63	50.21
792.3	36.55	42.36	40.23	43.13	49.01	49.46
892.6	38.53	44.97	40.65	43.58	49.78	49.75
972.8	40.29	49.41	40.37	44.04	49.10	49.66
1073.1	42.69	51.45	39.07	44.49	48.54	49.15
1153.3	44.77	46.91	37.98	43.68	48.56	51.13
1253.6	44.74	42.56	35.99	44.34	51.64	56.60
1434.1	38.92	40.00	35.59	44.32	49.09	53.55
1514.3	38.01	38.59	34.87	43.78	48.91	51.07
1614.6	36.30	37.57	34.83	43.07	46.76	49.24
1694.8	34.66	37.41	35.85	42.32	44.30	46.57
1795.1	33.40	35.47	35.38	41.65	42.25	44.68
1875.3	33.41	34.62	34.38	40.77	40.70	43.20
1975.6	33.34	34.72	34.36	40.07	40.17	42.22
2055.8	33.11	34.66	34.48	39.94	40.75	42.38
2156.1	32.62	34.64	34.88	39.92	41.57	42.76
2236.3	32.09	34.65	35.34	38.78	40.21	41.03
2336.6	31.57	35.44	37.01	37.00	37.58	38.24
2416.8	31.20	36.42	39.84	35.99	35.79	36.26
2517.1	30.58	36.30	43.78	35.76	34.81	34.72
2597.3	30.22	34.17	39.07	33.77	33.28	33.36
2697.6	30.15	32.86	36.04	31.04	31.30	31.86
2878.1	30.36	32.94	35.49	28.00	28.47	29.44
2958.3	30.29	32.88	35.43	26.96	27.66	28.70
3058.6	30.30	32.83	35.41	25.88	26.90	28.11
3138.8	30.11	32.51	35.07	25.18	26.23	27.69
3239.1	29.23	31.15	33.17	24.63	26.02	27.64
3319.3	28.58	30.19	31.86	24.28	25.80	27.61
3419.6	26.81	28.07	29.39	24.18	25.88	27.74
3499.8	25.01	26.16	27.46	24.13	25.89	27.81
3600.1	23.12	24.35	25.39	24.32	26.32	28.49

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+10	+13	+16
10.1	40.1	33.80	33.88	33.47
110.4	140.4	33.49	33.73	33.27
210.7	240.7	34.07	34.43	34.24
310.9	340.9	34.79	34.86	34.72
411.2	441.2	35.68	35.47	35.53
511.5	541.5	36.66	36.16	35.48
611.8	641.8	37.81	37.26	36.52
712.1	742.1	39.08	37.47	36.50
792.3	822.3	39.28	37.46	36.54
892.6	922.6	40.26	37.79	36.96
972.8	1002.8	41.19	38.74	37.02
1073.1	1103.1	42.89	40.25	38.70
1153.3	1183.3	44.51	43.10	40.04
1253.6	1283.6	45.58	42.59	40.39
1333.8	1363.8	47.03	44.11	41.47
1434.1	1464.1	49.74	45.71	42.58
1514.3	1544.3	50.63	51.21	48.42
1614.6	1644.6	46.55	51.46	59.28
1694.8	1724.8	43.96	44.70	46.25
1795.1	1825.1	43.63	42.89	42.48
1875.3	1905.3	43.54	43.85	43.83
1975.6	2005.6	43.46	43.26	42.70
2055.8	2085.8	43.55	42.35	41.60
2156.1	2186.1	43.22	41.51	39.89
2236.3	2266.3	43.30	41.63	40.19
2336.6	2366.6	43.65	42.01	40.81
2416.8	2446.8	42.85	41.27	40.22
2517.1	2547.1	40.82	39.70	39.94
2597.3	2627.3	40.55	39.80	40.75
2697.6	2727.6	39.77	39.35	39.73
2777.8	2807.8	39.00	38.47	38.60
2878.1	2908.1	38.38	38.11	37.83
2958.3	2988.3	37.89	37.77	37.30
3058.6	3088.6	37.27	36.99	36.43
3138.8	3168.8	36.62	36.46	35.59
3239.1	3269.1	35.74	34.85	33.63
3319.3	3349.3	34.84	33.80	32.40
3419.6	3449.6	34.28	33.11	31.58
3499.8	3529.8	35.19	33.55	31.51
3600.1	3630.1	37.79	35.76	32.90

Frequency Mixer

ROK-186MH+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+10	+13	+16
2.0	32.0	1.84	1.68	1.57
5.0	35.0	1.84	1.68	1.56
110.4	140.4	1.41	1.23	1.11
210.7	240.7	1.43	1.27	1.16
310.9	340.9	1.56	1.38	1.26
411.2	441.2	1.63	1.45	1.33
511.5	541.5	1.78	1.59	1.46
611.8	641.8	1.90	1.69	1.56
712.1	742.1	1.99	1.76	1.62
792.3	822.3	2.01	1.79	1.67
892.6	922.6	2.06	1.85	1.73
972.8	1002.8	2.11	1.90	1.78
1073.1	1103.1	2.15	1.91	1.78
1153.3	1183.3	2.09	1.85	1.72
1253.6	1283.6	2.03	1.77	1.64
1333.8	1363.8	2.02	1.74	1.60
1434.1	1464.1	2.02	1.73	1.57
1514.3	1544.3	2.03	1.73	1.57
1614.6	1644.6	2.01	1.72	1.58
1694.8	1724.8	1.98	1.74	1.61
1795.1	1825.1	2.04	1.82	1.70
1875.3	1905.3	2.09	1.87	1.75
1975.6	2005.6	2.11	1.88	1.73
2055.8	2085.8	2.03	1.81	1.67
2156.1	2186.1	1.85	1.65	1.50
2236.3	2266.3	1.68	1.50	1.37
2336.6	2366.6	1.52	1.35	1.24
2416.8	2446.8	1.42	1.26	1.15
2517.1	2547.1	1.31	1.17	1.08
2597.3	2627.3	1.21	1.12	1.11
2697.6	2727.6	1.17	1.19	1.24
2777.8	2807.8	1.22	1.28	1.36
2878.1	2908.1	1.26	1.37	1.47
2958.3	2988.3	1.28	1.41	1.52
3058.6	3088.6	1.34	1.47	1.60
3138.8	3168.8	1.42	1.54	1.65
3239.1	3269.1	1.48	1.56	1.65
3319.3	3349.3	1.46	1.51	1.58
3419.6	3449.6	1.41	1.43	1.48
3499.8	3529.8	1.44	1.46	1.50
3600.1	3630.1	1.53	1.54	1.58

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+10	+13	+16
2.0	1.11	1.48	2.18
5.0	1.12	1.46	2.18
110.4	1.24	1.29	1.93
210.7	1.30	1.29	1.90
310.9	1.32	1.29	1.88
411.2	1.42	1.30	1.84
511.5	1.47	1.30	1.80
611.8	1.58	1.33	1.77
712.1	1.64	1.31	1.71
792.3	1.72	1.34	1.68
892.6	1.80	1.35	1.63
972.8	1.88	1.38	1.60
1073.1	1.97	1.40	1.55
1153.3	2.07	1.43	1.51
1253.6	2.16	1.46	1.47
1333.8	2.18	1.45	1.42
1434.1	2.24	1.45	1.37
1514.3	2.22	1.43	1.32
1614.6	2.20	1.41	1.27
1694.8	2.14	1.38	1.25
1795.1	2.07	1.33	1.22
1875.3	2.01	1.29	1.23
1975.6	1.91	1.24	1.24
2055.8	1.86	1.20	1.26
2156.1	1.76	1.14	1.30
2236.3	1.70	1.10	1.35
2336.6	1.60	1.05	1.40
2416.8	1.52	1.03	1.45
2517.1	1.44	1.07	1.50
2597.3	1.38	1.10	1.54
2697.6	1.31	1.15	1.60
2777.8	1.26	1.20	1.65
2878.1	1.22	1.25	1.70
2958.3	1.21	1.29	1.74
3058.6	1.21	1.33	1.77
3138.8	1.23	1.37	1.81
3239.1	1.27	1.43	1.85
3319.3	1.30	1.47	1.88
3419.6	1.32	1.50	1.88
3499.8	1.31	1.49	1.85
3600.1	1.30	1.46	1.77

IF (OUT) (MHz)	IF VSWR @LO=2500.1MHz (:1)		
	@LO (dBm)		
	+10	+13	+16
5.0	1.59	1.36	1.21
10.0	1.60	1.36	1.21
30.2	1.88	1.43	1.23
50.4	1.76	1.49	1.30
70.6	1.72	1.51	1.32
90.8	1.76	1.49	1.30
111.0	1.81	1.47	1.27
131.2	1.80	1.45	1.26
151.4	1.77	1.48	1.29
171.6	1.75	1.49	1.29
191.8	1.75	1.46	1.28
212.0	1.76	1.45	1.27
232.2	1.77	1.45	1.27
252.4	1.73	1.44	1.27
272.7	1.71	1.45	1.28
292.9	1.74	1.45	1.28
313.1	1.75	1.44	1.26
333.3	1.73	1.43	1.26
353.5	1.73	1.44	1.27
373.7	1.71	1.43	1.26
393.9	1.68	1.40	1.23
434.3	1.69	1.39	1.22
454.5	1.64	1.36	1.20
494.9	1.65	1.36	1.20
515.1	1.64	1.34	1.18
555.5	1.59	1.32	1.17
575.7	1.59	1.31	1.15
616.1	1.55	1.27	1.13
636.3	1.55	1.27	1.13
676.7	1.53	1.24	1.10
696.9	1.54	1.25	1.10
737.3	1.49	1.21	1.08
757.6	1.49	1.21	1.08
798.0	1.49	1.20	1.04
818.2	1.46	1.18	1.04
858.6	1.47	1.18	1.02
878.8	1.47	1.17	1.01
919.2	1.47	1.19	1.03
939.4	1.45	1.18	1.04
979.8	1.49	1.19	1.06
1000.0	1.49	1.20	1.09

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	36	25	32	31	33	65	60	69	62	79
1	-	37	+0	43	16	45	31	49	50	51	58	87
2	77	49	49	61	52	54	57	47	47	60	67	66
3	>100	68	42	64	46	72	48	77	53	70	58	65
4	>100	62	74	66	73	64	75	66	78	61	65	69
5	>100	75	69	81	65	82	62	86	62	83	63	86
6	>100	83	86	74	94	77	88	76	91	77	89	73
7	>100	>98	95	85	81	92	84	91	81	>98	80	92
8	>100	>98	>98	92	96	85	>98	87	>98	86	>98	87
9	>100	>98	>98	>98	>98	95	92	>98	>98	>98	>98	>98
10	>100	>98	>98	>98	>98	>98	>98	96	>98	95	>98	93
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1250.1 MHz; 4.00 dBm.
 LO IN: 1280.01 MHz; +13.00 dBm
 IF OUT: 29.91 MHz; -2.46 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	26	15	23	19	20	44	43	47	50	51
1	-	38	+0	41	16	45	33	44	43	47	49	76
2	87	62	58	58	61	56	63	51	54	62	73	65
3	>100	79	61	76	65	82	63	86	65	75	72	81
4	>100	81	>88	84	>88	80	>88	84	>88	81	>88	88
5	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
6	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
7	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
8	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
9	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
10	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1250.1 MHz; -6.00 dBm.
 LO IN: 1280.01 MHz; +13.00 dBm
 IF OUT: 29.91 MHz; -12.48 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.

REV. X2
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 100818
 Page 5 of 5



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