

Frequency Mixer

HJK-ED12222/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=265MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
110.1	375.1	11.13	10.95	10.80
140.1	405.1	10.12	9.89	9.73
180.1	445.1	9.09	8.86	8.67
210.1	475.1	8.18	8.04	7.94
250.1	515.1	7.71	7.61	7.57
280.1	545.1	7.08	6.95	6.87
320.1	585.1	6.45	6.25	6.09
350.1	615.1	6.37	6.18	6.02
390.1	655.1	6.63	6.44	6.29
420.1	685.1	6.89	6.71	6.57
460.1	725.1	7.20	7.08	6.99
490.1	755.1	7.11	7.00	6.93
530.1	795.1	6.82	6.67	6.58
560.1	825.1	6.89	6.71	6.59
600.1	865.1	6.82	6.63	6.48
630.1	895.1	6.79	6.58	6.43
670.1	935.1	6.74	6.52	6.35
700.1	965.1	6.55	6.30	6.11
740.1	1005.1	6.45	6.17	5.94
770.1	1035.1	6.40	6.10	5.86
810.1	1075.1	6.36	6.05	5.81
840.1	1105.1	6.56	6.26	6.00
880.1	1145.1	6.86	6.61	6.40
910.1	1175.1	6.87	6.65	6.48
950.1	1215.1	6.71	6.48	6.31
980.1	1245.1	6.73	6.50	6.33
1020.1	1285.1	7.01	6.78	6.61
1050.1	1315.1	7.31	7.09	6.93
1090.1	1355.1	7.80	7.60	7.46
1120.1	1385.1	8.22	8.05	7.93
1160.1	1425.1	8.69	8.56	8.47
1190.1	1455.1	9.08	8.96	8.88
1230.1	1495.1	9.34	9.20	9.10
1260.1	1525.1	9.33	9.16	9.03
1300.1	1565.1	9.38	9.19	9.05
1330.1	1595.1	9.25	9.07	8.94
1370.1	1635.1	9.44	9.30	9.19
1400.1	1665.1	9.83	9.72	9.63
1440.1	1705.1	10.25	10.17	10.12
1470.1	1735.1	10.95	10.89	10.86

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
110.1	375.1	16.80	21.58	24.00
140.1	405.1	16.40	17.16	18.92
180.1	445.1	18.75	19.81	21.08
210.1	475.1	21.19	24.60	28.15
250.1	515.1	22.28	27.03	30.18
280.1	545.1	22.85	27.42	29.25
320.1	585.1	21.10	22.91	24.43
350.1	615.1	20.83	22.53	24.07
390.1	655.1	21.32	23.14	24.96
420.1	685.1	20.79	22.73	24.83
460.1	725.1	19.78	21.76	24.00
490.1	755.1	20.30	22.20	24.48
530.1	795.1	20.76	22.52	24.68
560.1	825.1	21.48	23.26	25.56
600.1	865.1	22.03	23.95	26.46
630.1	895.1	22.28	24.32	26.95
670.1	935.1	22.78	25.00	27.81
700.1	965.1	23.02	25.30	28.17
740.1	1005.1	22.97	25.29	27.94
770.1	1035.1	23.43	25.75	28.39
810.1	1075.1	24.31	26.76	29.59
840.1	1105.1	24.87	27.51	30.63
880.1	1145.1	24.92	27.62	30.77
910.1	1175.1	24.01	26.57	29.47
950.1	1215.1	23.25	25.80	28.59
980.1	1245.1	23.23	25.84	28.70
1020.1	1285.1	23.44	26.13	29.09
1050.1	1315.1	24.06	26.86	30.04
1090.1	1355.1	25.14	28.08	31.56
1120.1	1385.1	26.11	29.10	32.82
1160.1	1425.1	27.90	31.33	35.57
1190.1	1455.1	28.72	32.28	36.67
1230.1	1495.1	28.83	32.07	36.29
1260.1	1525.1	28.08	30.89	34.83
1300.1	1565.1	25.65	27.93	31.14
1330.1	1595.1	24.18	26.37	29.44
1370.1	1635.1	23.28	25.46	28.46
1400.1	1665.1	22.97	25.10	28.06
1440.1	1705.1	23.28	25.58	28.56
1470.1	1735.1	23.35	25.62	28.76

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+17dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
110.1	375.1	0.87	0.64	0.49
140.1	405.1	1.21	0.85	0.65
180.1	445.1	1.46	1.06	0.83
210.1	475.1	1.61	1.03	0.65
250.1	515.1	1.93	1.09	0.54
280.1	545.1	2.22	1.21	0.56
320.1	585.1	2.40	1.27	0.52
350.1	615.1	2.29	1.10	0.37
390.1	655.1	1.59	0.58	0.21
420.1	685.1	1.32	0.40	0.11
460.1	725.1	0.91	0.26	0.09
490.1	755.1	0.83	0.34	0.16
530.1	795.1	0.97	0.48	0.25
560.1	825.1	0.74	0.35	0.19
600.1	865.1	0.62	0.29	0.15
630.1	895.1	0.59	0.28	0.15
670.1	935.1	0.60	0.31	0.17
700.1	965.1	0.68	0.37	0.21
740.1	1005.1	0.67	0.37	0.21
770.1	1035.1	0.64	0.34	0.19
810.1	1075.1	0.54	0.28	0.16
840.1	1105.1	0.44	0.21	0.12
880.1	1145.1	0.37	0.16	0.08
910.1	1175.1	0.48	0.22	0.11
950.1	1215.1	0.68	0.35	0.18
980.1	1245.1	0.69	0.37	0.20
1020.1	1285.1	0.61	0.34	0.19
1050.1	1315.1	0.49	0.29	0.16
1090.1	1355.1	0.41	0.25	0.14
1120.1	1385.1	0.39	0.24	0.13
1160.1	1425.1	0.36	0.21	0.10
1190.1	1455.1	0.36	0.20	0.10
1230.1	1495.1	0.37	0.19	0.09
1260.1	1525.1	0.40	0.19	0.10
1300.1	1565.1	0.60	0.27	0.14
1330.1	1595.1	0.77	0.37	0.19
1370.1	1635.1	0.97	0.47	0.24
1400.1	1665.1	1.11	0.55	0.27
1440.1	1705.1	1.07	0.52	0.24
1470.1	1735.1	1.07	0.51	0.22

REV. X2

HJK-ED12222/1

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Page 1 of 5



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Frequency Mixer

HJK-ED12222/1

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=881.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=869.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=894.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
470.0	411.1	11.80	10.0	879.1	7.52	470.0	424.1	10.92
453.0	428.1	9.95	30.0	899.1	7.61	460.0	434.1	9.82
435.9	445.2	8.40	50.0	919.1	7.52	450.0	444.1	8.90
418.9	462.2	7.69	70.0	939.1	7.29	440.0	454.1	7.79
401.9	479.2	7.67	90.0	959.1	7.20	430.0	464.1	7.57
384.8	496.3	7.59	110.0	979.1	7.00	420.0	474.1	7.34
367.8	513.3	7.53	130.0	999.1	6.78	410.0	484.1	7.59
350.7	530.4	7.48	150.0	1019.1	6.54	400.0	494.1	7.43
316.7	564.4	7.44	170.0	1039.1	6.39	390.0	504.1	7.52
299.6	581.5	7.49	190.0	1059.1	6.31	380.0	514.1	7.43
265.6	615.5	7.35	210.0	1079.1	6.26	370.0	524.1	7.40
248.5	632.6	7.15	230.0	1099.1	6.30	360.0	534.1	7.34
214.4	666.7	6.79	250.0	1119.1	6.37	350.0	544.1	7.24
197.4	683.7	6.77	260.0	1129.1	6.46	340.0	554.1	7.32
163.3	717.8	6.78	280.0	1149.1	6.63	330.0	564.1	7.28
146.3	734.8	6.86	290.0	1159.1	6.69	320.0	574.1	7.42
112.2	768.9	7.07	310.0	1179.1	6.83	310.0	584.1	7.38
95.2	785.9	7.16	320.0	1189.1	6.94	300.0	594.1	7.43
61.1	820.0	7.29	340.0	1209.1	7.11	290.0	604.1	7.44
44.1	837.0	7.41	350.0	1219.1	7.23	280.0	614.1	7.31
10.0	871.1	7.37	370.0	1239.1	7.50	270.0	624.1	7.27
10.0	891.1	7.43	380.0	1249.1	7.61	260.0	634.1	7.09
57.4	938.5	7.43	400.0	1269.1	7.73	250.0	644.1	6.97
81.1	962.2	7.28	410.0	1279.1	7.78	240.0	654.1	6.89
128.5	1009.6	6.80	430.0	1299.1	7.74	230.0	664.1	6.82
152.2	1033.3	6.51	440.0	1309.1	7.73	220.0	674.1	6.81
199.6	1080.7	6.30	460.0	1329.1	7.71	200.0	694.1	6.70
223.3	1104.4	6.37	470.0	1339.1	7.71	190.0	704.1	6.66
270.7	1151.8	6.66	490.0	1359.1	7.76	170.0	724.1	6.73
294.4	1175.5	6.75	500.0	1369.1	7.77	160.0	734.1	6.76
341.9	1223.0	7.10	520.0	1389.1	7.93	140.0	754.1	6.92
365.6	1246.7	7.44	530.0	1399.1	8.03	130.0	764.1	7.01
413.0	1294.1	7.66	550.0	1419.1	8.29	110.0	784.1	7.12
436.7	1317.8	7.61	560.0	1429.1	8.46	100.0	794.1	7.15
484.1	1365.2	7.65	580.0	1449.1	8.92	80.0	814.1	7.23
507.8	1388.9	7.74	590.0	1459.1	9.17	70.0	824.1	7.21
555.2	1436.3	8.32	610.0	1479.1	9.75	50.0	844.1	7.40
578.9	1460.0	8.85	620.0	1489.1	10.07	40.0	854.1	7.45
626.3	1507.4	10.26	640.0	1509.1	10.75	20.0	874.1	7.51
650.0	1531.1	11.09	650.0	1519.1	11.10	10.0	884.1	7.36

Frequency Mixer

HJK-ED12222/1

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
375.1	50.64	50.79	50.95	44.72	44.97	45.18
405.1	54.00	54.17	54.42	45.83	46.10	46.35
445.1	54.41	54.57	54.88	45.86	46.16	46.45
475.1	50.42	50.12	49.92	43.25	43.32	43.32
515.1	49.05	48.90	48.80	42.11	42.15	42.18
545.1	48.61	48.55	48.48	41.14	41.18	41.16
585.1	47.65	47.62	47.77	40.10	40.17	40.21
615.1	48.27	48.48	48.72	39.00	39.07	39.10
655.1	46.56	46.47	46.55	37.67	37.74	37.79
685.1	46.83	46.63	46.58	37.26	37.39	37.51
725.1	47.93	47.77	47.78	37.59	37.85	38.12
755.1	48.16	47.99	48.07	38.07	38.44	38.75
795.1	48.27	48.16	48.24	37.62	37.94	38.21
825.1	50.06	49.82	49.88	37.12	37.39	37.67
865.1	50.75	51.03	51.55	37.39	37.61	37.79
895.1	49.80	50.47	51.45	37.42	37.54	37.64
935.1	49.00	48.99	49.13	37.74	37.74	37.73
965.1	47.19	47.05	46.94	38.32	38.28	38.24
1005.1	41.64	41.52	41.52	38.52	38.50	38.46
1035.1	36.08	35.71	35.52	38.44	38.43	38.41
1075.1	34.73	34.11	33.61	38.20	38.19	38.17
1105.1	37.53	36.90	36.32	37.99	38.01	37.98
1145.1	41.95	41.27	40.68	37.87	37.88	37.86
1175.1	45.41	44.80	44.26	37.85	37.87	37.88
1215.1	51.21	50.77	50.28	37.96	37.98	38.00
1245.1	58.23	58.21	58.05	38.12	38.15	38.17
1285.1	55.52	54.99	54.37	38.49	38.54	38.57
1315.1	50.89	50.26	49.57	38.88	38.93	38.98
1355.1	47.32	46.67	45.87	39.60	39.64	39.74
1385.1	45.60	45.13	44.32	40.22	40.28	40.34
1425.1	44.28	44.10	43.46	41.11	41.26	41.32
1455.1	44.11	44.20	43.72	41.97	42.11	42.24
1495.1	45.19	45.47	45.10	43.20	43.39	43.51
1525.1	45.68	46.09	45.83	44.05	44.28	44.44
1565.1	46.43	46.81	46.70	44.54	44.77	44.95
1595.1	46.74	47.06	46.87	44.12	44.30	44.41
1635.1	47.82	48.03	47.83	43.20	43.33	43.40
1665.1	48.97	49.15	49.04	42.97	43.13	43.25
1705.1	51.96	52.08	51.82	43.55	43.76	43.92
1735.1	54.10	53.77	53.14	43.88	44.07	44.23

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
110.1	375.1	33.81	32.99	32.40
140.1	405.1	26.92	26.36	25.82
180.1	445.1	23.11	22.80	22.58
210.1	475.1	22.97	22.69	22.47
250.1	515.1	22.05	21.59	21.23
280.1	545.1	21.66	21.36	21.12
320.1	585.1	22.16	22.12	22.18
350.1	615.1	23.34	23.35	23.45
390.1	655.1	25.62	25.73	25.89
420.1	685.1	27.81	28.03	28.33
460.1	725.1	30.52	30.78	31.23
490.1	755.1	34.77	35.77	37.54
530.1	795.1	35.47	36.20	37.63
560.1	825.1	34.70	34.93	35.57
600.1	865.1	36.00	36.27	37.10
630.1	895.1	38.02	38.82	40.50
670.1	935.1	39.85	41.22	43.99
700.1	965.1	40.10	41.27	43.53
740.1	1005.1	39.74	40.64	42.29
770.1	1035.1	39.40	39.93	40.93
810.1	1075.1	40.38	40.78	41.50
840.1	1105.1	41.11	41.59	42.36
880.1	1145.1	41.13	41.57	42.08
910.1	1175.1	41.16	41.64	42.15
950.1	1215.1	39.85	40.19	40.57
980.1	1245.1	38.39	38.55	38.74
1020.1	1285.1	36.83	36.84	36.88
1050.1	1315.1	35.84	35.79	35.74
1090.1	1355.1	34.64	34.54	34.47
1120.1	1385.1	33.84	33.72	33.62
1160.1	1425.1	32.96	32.82	32.72
1190.1	1455.1	32.51	32.38	32.28
1230.1	1495.1	32.13	32.01	31.92
1260.1	1525.1	31.96	31.86	31.78
1300.1	1565.1	31.84	31.73	31.64
1330.1	1595.1	31.61	31.49	31.40
1370.1	1635.1	31.05	30.94	30.84
1400.1	1665.1	30.47	30.36	30.27
1440.1	1705.1	29.74	29.64	29.58
1470.1	1735.1	29.30	29.23	29.17

Frequency Mixer

HJK-ED12222/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1159MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
110.1	375.1	4.28	4.33	4.37	375.1	8.01	8.05	8.05	10.0	2.26	2.34	2.43
140.1	405.1	3.70	3.75	3.80	405.1	9.08	9.13	9.13	20.0	2.22	2.31	2.40
180.1	445.1	3.12	3.16	3.19	445.1	10.07	10.07	10.07	30.0	2.15	2.23	2.31
210.1	475.1	2.74	2.82	2.89	475.1	10.19	10.19	10.13	40.0	2.15	2.22	2.30
250.1	515.1	2.22	2.31	2.39	515.1	10.02	9.96	9.96	50.0	2.20	2.29	2.37
280.1	545.1	1.82	1.89	1.94	545.1	9.69	9.63	9.58	60.0	2.18	2.26	2.35
320.1	585.1	1.19	1.23	1.26	585.1	9.04	9.04	8.99	70.0	2.15	2.23	2.31
350.1	615.1	1.22	1.23	1.25	615.1	8.51	8.51	8.43	80.0	2.23	2.32	2.40
390.1	655.1	1.61	1.61	1.61	655.1	7.73	7.70	7.63	90.0	2.25	2.34	2.43
420.1	685.1	1.91	1.90	1.90	685.1	7.11	7.08	7.02	100.0	2.18	2.27	2.35
460.1	725.1	2.24	2.27	2.30	725.1	6.28	6.26	6.19	110.0	2.18	2.27	2.36
490.1	755.1	2.26	2.31	2.35	755.1	5.75	5.72	5.68	120.0	2.22	2.31	2.41
530.1	795.1	2.21	2.23	2.25	795.1	5.06	5.04	4.99	130.0	2.17	2.26	2.35
560.1	825.1	2.28	2.28	2.30	825.1	4.60	4.57	4.53	140.0	2.13	2.21	2.29
600.1	865.1	2.33	2.33	2.33	865.1	4.09	4.07	4.03	150.0	2.20	2.28	2.36
630.1	895.1	2.35	2.34	2.34	895.1	3.75	3.72	3.68	160.0	2.21	2.29	2.37
670.1	935.1	2.30	2.29	2.29	935.1	3.34	3.31	3.29	170.0	2.15	2.22	2.29
700.1	965.1	2.22	2.20	2.19	965.1	3.07	3.05	3.01	180.0	2.16	2.22	2.29
740.1	1005.1	2.10	2.06	2.03	1005.1	2.74	2.71	2.68	190.0	2.21	2.27	2.34
770.1	1035.1	1.99	1.95	1.91	1035.1	2.57	2.55	2.52	200.0	2.16	2.22	2.27
810.1	1075.1	1.87	1.81	1.76	1075.1	2.46	2.45	2.43	210.0	2.12	2.16	2.20
840.1	1105.1	1.81	1.76	1.71	1105.1	2.41	2.40	2.39	220.0	2.17	2.20	2.23
880.1	1145.1	1.69	1.65	1.63	1145.1	2.39	2.39	2.39	230.0	2.18	2.20	2.22
910.1	1175.1	1.50	1.47	1.45	1175.1	2.40	2.41	2.41	240.0	2.14	2.15	2.16
950.1	1215.1	1.28	1.23	1.20	1215.1	2.47	2.49	2.50	250.0	2.16	2.16	2.15
980.1	1245.1	1.21	1.15	1.10	1245.1	2.57	2.59	2.61	260.0	2.20	2.19	2.18
1020.1	1285.1	1.34	1.31	1.31	1285.1	2.75	2.77	2.79	280.0	2.12	2.08	2.04
1050.1	1315.1	1.53	1.53	1.54	1315.1	2.92	2.95	2.98	290.0	2.16	2.10	2.05
1090.1	1355.1	1.88	1.91	1.95	1355.1	3.19	3.22	3.25	310.0	2.16	2.07	2.00
1120.1	1385.1	2.22	2.27	2.32	1385.1	3.42	3.45	3.48	320.0	2.22	2.12	2.03
1160.1	1425.1	2.75	2.84	2.92	1425.1	3.76	3.80	3.84	340.0	2.30	2.18	2.08
1190.1	1455.1	3.19	3.29	3.38	1455.1	4.03	4.07	4.09	350.0	2.31	2.18	2.07
1230.1	1495.1	3.63	3.74	3.83	1495.1	4.40	4.45	4.50	370.0	2.46	2.32	2.20
1260.1	1525.1	3.77	3.86	3.94	1525.1	4.69	4.74	4.77	380.0	2.49	2.35	2.23
1300.1	1565.1	3.65	3.73	3.79	1565.1	5.09	5.12	5.12	400.0	2.82	2.67	2.56
1330.1	1595.1	3.54	3.63	3.70	1595.1	5.34	5.41	5.42	410.0	2.91	2.77	2.65
1370.1	1635.1	3.58	3.71	3.82	1635.1	5.68	5.70	5.66	430.0	3.21	3.08	2.97
1400.1	1665.1	3.83	4.01	4.14	1665.1	5.97	5.99	5.97	440.0	3.37	3.24	3.13
1440.1	1705.1	4.53	4.77	4.96	1705.1	6.28	6.30	6.30	460.0	3.61	3.50	3.41
1470.1	1735.1	5.17	5.47	5.70	1735.1	6.49	6.49	6.39	470.0	3.86	3.76	3.67

REV. X2

HJK-ED12222/1

101012

Page 4 of 5



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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	15	25	30	28	38	32	27	46	53	47
1	-	34	+0	48	24	47	44	44	43	45	44	66
2	59	85	65	60	77	70	69	59	70	65	64	68
3	>90	>85	>85	73	75	>85	74	>85	>85	77	83	84
4	>90	>85	>85	>85	76	>85	>85	>85	>85	>85	>85	>85
5	>90	>85	>85	>85	>85	82	>85	>85	>85	>85	>85	>85
6	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
7	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
8	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
9	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
10	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 881.1 MHz; 2.00 dBm.

LO IN: 1146.1 MHz; +17.00 dBm

IF OUT: 265 MHz; -4.69 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	25	35	42	39	50	44	40	51	60	60
1	-	34	+0	48	24	48	45	46	45	47	47	67
2	39	70	55	50	70	56	62	55	66	64	60	65
3	60	75	71	63	55	77	55	81	75	61	77	72
4	83	79	79	>95	64	>95	78	90	92	71	87	77
5	>90	>95	80	92	85	81	>95	92	76	>95	92	85
6	>90	84	>95	>95	>95	>95	84	>95	92	87	>95	82
7	>90	>95	>95	>95	>95	>95	90	>95	>95	>95	>95	94
8	>90	>95	>95	>95	>95	>95	>95	93	>95	>95	>95	>95
9	>90	>95	>95	>95	>95	>95	>95	>95	92	>95	>95	>95
10	>90	>95	>95	>95	>95	>95	>95	>95	>95	>95	>95	>95
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 881.1 MHz; 12.00 dBm.

LO IN: 1146.1 MHz; +17.00 dBm

IF OUT: 265 MHz; 5.28 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

HJK-ED12222/1

101012

Page 5 of 5



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