

Frequency Mixer

HJK-ED9483/2

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=199MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+14dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+4	+7	+10			+4	+7	+10			+4	+7	+10
519.1	320.1	13.08	10.88	8.91	519.1	320.1	13.52	17.77	17.67	519.1	320.1	3.70	3.18	2.91
559.6	360.6	9.41	7.82	6.89	559.6	360.6	18.77	16.35	17.91	559.6	360.6	3.15	2.77	2.01
600.0	401.0	7.25	6.63	6.27	600.0	401.0	19.55	20.95	21.52	600.0	401.0	2.05	1.24	0.66
640.5	441.5	6.69	6.39	6.20	640.5	441.5	15.78	16.31	17.06	640.5	441.5	0.92	0.66	0.55
680.9	481.9	7.43	7.03	6.83	680.9	481.9	19.04	20.82	23.77	680.9	481.9	1.20	0.94	0.69
721.4	522.4	7.47	6.91	6.64	721.4	522.4	18.31	20.46	22.59	721.4	522.4	1.99	1.37	0.88
761.9	562.9	7.99	7.14	6.71	761.9	562.9	18.61	19.80	21.46	761.9	562.9	2.77	1.86	1.14
802.3	603.3	8.84	7.59	6.90	802.3	603.3	19.22	18.81	20.78	802.3	603.3	3.90	2.87	1.81
842.8	643.8	9.33	7.89	7.07	842.8	643.8	17.80	17.39	19.13	842.8	643.8	4.66	3.62	2.38
883.2	684.2	10.13	8.52	7.45	883.2	684.2	17.63	16.91	17.07	883.2	684.2	5.70	4.91	3.81
923.7	724.7	10.30	8.76	7.58	923.7	724.7	15.18	15.81	15.63	923.7	724.7	8.77	7.49	5.92
964.2	765.2	10.61	8.98	7.73	964.2	765.2	13.91	15.21	15.90	964.2	765.2	9.14	7.75	5.95
1004.6	805.6	10.71	8.98	7.74	1004.6	805.6	17.78	16.79	16.80	1004.6	805.6	4.91	4.54	3.91
1045.1	846.1	10.72	8.99	7.74	1045.1	846.1	19.17	17.50	17.27	1045.1	846.1	4.00	3.52	2.96
1085.5	886.5	10.78	9.06	7.79	1085.5	886.5	16.60	17.52	17.52	1085.5	886.5	3.60	3.06	2.47
1126.0	927.0	10.73	9.10	7.98	1126.0	927.0	16.53	17.99	17.65	1126.0	927.0	3.18	2.65	2.05
1166.5	967.5	10.79	9.22	8.12	1166.5	967.5	15.90	17.21	17.33	1166.5	967.5	3.14	2.60	2.00
1206.9	1007.9	10.66	9.04	7.95	1206.9	1007.9	16.00	19.05	19.07	1206.9	1007.9	3.21	2.66	1.97
1247.4	1048.4	10.50	8.88	7.75	1247.4	1048.4	17.11	22.88	20.72	1247.4	1048.4	3.44	2.82	2.00
1287.8	1088.8	10.35	8.74	7.63	1287.8	1088.8	17.84	22.74	20.56	1287.8	1088.8	3.65	2.94	2.07
1328.3	1129.3	10.24	8.64	7.58	1328.3	1129.3	19.30	23.96	21.05	1328.3	1129.3	3.76	2.98	2.05
1368.8	1169.8	9.90	8.38	7.41	1368.8	1169.8	21.81	21.57	20.90	1368.8	1169.8	3.94	3.09	2.08
1409.2	1210.2	9.86	8.34	7.42	1409.2	1210.2	25.05	20.23	20.61	1409.2	1210.2	4.13	3.20	2.13
1469.9	1270.9	9.26	7.95	7.21	1469.9	1270.9	21.56	19.22	21.57	1469.9	1270.9	4.52	3.34	1.97
1510.4	1311.4	9.22	7.94	7.25	1510.4	1311.4	19.27	18.62	21.39	1510.4	1311.4	4.92	3.61	2.06
1571.1	1372.1	8.74	7.71	7.20	1571.1	1372.1	17.88	18.67	21.42	1571.1	1372.1	2.24	1.75	1.21
1611.5	1412.5	8.42	7.52	7.09	1611.5	1412.5	17.81	19.75	22.90	1611.5	1412.5	2.20	1.56	0.95
1672.2	1473.2	7.83	7.26	6.99	1672.2	1473.2	19.37	23.03	26.63	1672.2	1473.2	1.95	1.20	0.61
1712.7	1513.7	7.67	7.24	7.04	1712.7	1513.7	22.64	25.74	26.84	1712.7	1513.7	1.66	0.88	0.42
1773.4	1574.4	7.73	7.48	7.44	1773.4	1574.4	20.21	23.41	27.74	1773.4	1574.4	1.35	0.72	0.34
1813.8	1614.8	7.65	7.50	7.51	1813.8	1614.8	20.15	23.46	27.97	1813.8	1614.8	1.23	0.62	0.28
1874.5	1675.5	7.75	7.58	7.58	1874.5	1675.5	20.09	23.00	26.87	1874.5	1675.5	1.31	0.66	0.29
1915.0	1716.0	7.89	7.70	7.71	1915.0	1716.0	19.63	22.49	25.85	1915.0	1716.0	1.54	0.76	0.33
1975.7	1776.7	8.14	7.78	7.71	1975.7	1776.7	18.41	21.37	24.24	1975.7	1776.7	1.97	1.09	0.51
2016.1	1817.1	8.57	8.03	7.88	2016.1	1817.1	17.48	20.16	23.22	2016.1	1817.1	2.49	1.48	0.73
2076.8	1877.8	9.10	8.28	7.93	2076.8	1877.8	17.24	19.20	22.41	2076.8	1877.8	2.77	1.83	1.00
2117.3	1918.3	9.79	8.73	8.20	2117.3	1918.3	16.50	18.19	21.02	2117.3	1918.3	3.06	2.14	1.25
2178.0	1979.0	10.44	9.19	8.42	2178.0	1979.0	15.62	17.63	19.85	2178.0	1979.0	3.27	2.46	1.54
2218.4	2019.4	11.22	9.83	8.86	2218.4	2019.4	14.60	16.89	18.95	2218.4	2019.4	3.26	2.51	1.64
2279.1	2080.1	11.92	10.40	9.24	2279.1	2080.1	13.58	15.69	18.00	2279.1	2080.1	3.38	2.63	1.81

Frequency Mixer

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1750MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1689.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1805.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
670.0	1080.0	10.13	10.1	1700.0	7.59	710.1	1095.0	10.19
642.5	1107.5	9.89	19.3	1709.2	7.38	692.2	1112.9	10.10
615.0	1135.0	9.64	28.6	1718.5	7.35	674.2	1130.9	9.94
587.5	1162.5	9.44	37.8	1727.7	7.34	656.3	1148.8	9.74
560.0	1190.0	9.22	47.0	1736.9	7.34	638.3	1166.8	9.55
532.5	1217.5	9.07	56.3	1746.2	7.36	620.4	1184.7	9.49
505.0	1245.0	8.78	65.5	1755.4	7.35	602.4	1202.7	9.34
477.5	1272.5	8.56	74.7	1764.6	7.36	584.5	1220.6	9.23
450.0	1300.0	8.49	83.9	1773.8	7.37	566.5	1238.6	9.07
422.5	1327.5	8.21	93.2	1783.1	7.41	548.6	1256.5	8.87
395.0	1355.0	8.02	102.4	1792.3	7.46	530.6	1274.5	8.71
367.5	1382.5	7.91	111.6	1801.5	7.51	512.7	1292.4	8.60
340.0	1410.0	7.73	120.9	1810.8	7.59	494.7	1310.4	8.52
312.5	1437.5	7.55	130.1	1820.0	7.67	476.8	1328.3	8.39
285.0	1465.0	7.42	139.3	1829.2	7.74	458.8	1346.3	8.15
257.5	1492.5	7.35	148.6	1838.5	7.79	440.9	1364.2	8.10
230.0	1520.0	7.33	157.8	1847.7	7.83	422.9	1382.2	8.00
202.5	1547.5	7.53	167.0	1856.9	7.84	405.0	1400.1	8.14
175.0	1575.0	7.43	176.3	1866.2	7.92	387.0	1418.1	7.83
147.5	1602.5	7.34	185.5	1875.4	8.02	369.1	1436.0	7.68
92.5	1657.5	7.30	194.7	1884.6	8.13	351.1	1454.0	7.60
65.0	1685.0	7.32	203.9	1893.8	8.27	333.2	1471.9	7.56
10.0	1740.0	7.82	213.2	1903.1	8.38	315.2	1489.9	7.49
10.0	1760.0	7.86	222.4	1912.3	8.54	297.3	1507.8	7.46
36.7	1786.7	7.57	231.6	1921.5	8.60	279.3	1525.8	7.51
50.0	1800.0	7.59	240.9	1930.8	8.64	261.4	1543.7	7.66
76.7	1826.7	7.73	250.1	1940.0	8.70	243.4	1561.7	7.63
90.0	1840.0	7.77	259.3	1949.2	8.76	225.5	1579.6	7.58
116.7	1866.7	7.87	268.6	1958.5	8.86	207.5	1597.6	7.51
130.0	1880.0	8.01	277.8	1967.7	8.97	189.6	1615.5	7.44
156.7	1906.7	8.33	287.0	1976.9	9.15	171.6	1633.5	7.40
170.0	1920.0	8.42	296.3	1986.2	9.31	153.7	1651.4	7.40
196.7	1946.7	8.57	305.5	1995.4	9.49	135.7	1669.4	7.38
210.0	1960.0	8.67	314.7	2004.6	9.66	117.8	1687.3	7.36
236.7	1986.7	9.10	323.9	2013.8	9.74	99.8	1705.3	7.37
250.0	2000.0	9.28	333.2	2023.1	9.80	81.9	1723.2	7.41
276.7	2026.7	9.54	342.4	2032.3	9.83	63.9	1741.2	7.47
290.0	2040.0	9.60	351.6	2041.5	9.90	46.0	1759.1	7.51
316.7	2066.7	9.90	360.9	2050.8	9.94	28.0	1777.1	7.62
330.0	2080.0	10.11	370.1	2060.0	10.06	10.1	1795.0	8.01

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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
320.1	37.09	38.95	40.95	44.37	44.87	45.67
360.6	35.41	37.45	39.02	40.59	41.43	42.79
401.0	33.08	34.23	34.35	36.14	37.07	39.01
441.5	28.35	29.14	28.80	33.63	35.11	39.66
481.9	28.92	30.62	30.69	38.12	40.46	44.28
522.4	30.09	31.76	31.22	38.15	39.90	42.40
562.9	32.05	33.88	33.28	39.22	40.77	42.79
603.3	32.21	34.24	33.56	39.90	41.35	43.13
643.8	33.14	35.22	34.71	40.74	41.95	43.22
684.2	33.37	35.58	35.26	41.52	42.53	43.48
724.7	33.71	35.82	35.56	42.18	43.01	43.15
765.2	34.28	36.60	36.72	42.31	42.36	41.58
805.6	34.54	36.90	37.23	41.45	41.13	39.97
846.1	35.69	38.52	39.75	40.22	39.78	38.39
886.5	36.69	40.27	43.37	39.23	38.59	36.99
927.0	39.57	44.04	45.96	38.20	37.67	36.58
967.5	38.74	38.38	36.89	38.21	38.53	38.18
1007.9	35.64	35.64	34.53	39.47	40.47	40.38
1048.4	34.50	34.85	33.86	40.39	41.62	41.66
1088.8	33.79	34.27	33.29	40.66	41.92	42.09
1129.3	33.15	33.67	32.74	40.59	41.78	42.08
1169.8	32.67	33.27	32.48	40.22	41.48	41.87
1210.2	32.01	32.61	31.86	39.81	41.25	41.96
1270.9	31.44	32.34	31.75	39.03	40.66	41.47
1311.4	31.04	32.08	31.68	38.17	39.72	40.63
1372.1	30.39	31.35	31.12	37.02	38.40	39.46
1412.5	29.46	30.72	30.45	35.95	37.60	38.86
1473.2	28.49	29.92	29.71	34.48	36.16	38.09
1513.7	28.53	30.32	30.35	31.56	32.46	33.74
1574.4	28.89	30.85	31.05	27.44	27.88	28.59
1614.8	29.39	31.14	31.26	27.11	27.74	28.64
1675.5	30.29	31.87	31.97	27.13	27.94	28.91
1716.0	31.19	32.81	32.83	27.47	28.32	29.24
1776.7	32.27	34.12	34.17	28.41	29.37	30.29
1817.1	32.53	34.44	34.43	28.93	29.77	30.58
1877.8	33.36	35.28	35.39	30.12	30.74	31.47
1918.3	33.97	36.08	36.33	31.00	31.47	32.06
1979.0	34.69	36.64	36.74	32.68	33.00	33.27
2019.4	34.98	36.81	36.92	34.11	34.31	34.27
2080.1	35.74	37.42	37.40	36.27	36.08	35.63

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
519.1	320.1	26.12	25.88	25.81
559.6	360.6	26.24	27.13	28.63
600.0	401.0	28.86	30.61	32.36
640.5	441.5	33.12	35.38	41.43
680.9	481.9	38.63	49.14	41.98
721.4	522.4	30.08	34.23	38.80
761.9	562.9	27.32	29.96	32.58
802.3	603.3	26.20	27.82	29.62
842.8	643.8	25.80	26.97	28.36
883.2	684.2	25.84	26.28	27.55
923.7	724.7	26.66	26.84	28.26
964.2	765.2	28.42	28.60	30.45
1004.6	805.6	31.23	31.72	34.07
1045.1	846.1	35.81	37.91	47.27
1085.5	886.5	46.69	38.55	30.65
1126.0	927.0	31.16	26.62	22.61
1166.5	967.5	32.59	27.39	23.64
1206.9	1007.9	41.17	34.50	28.29
1247.4	1048.4	40.36	38.79	32.30
1287.8	1088.8	38.75	39.73	36.22
1328.3	1129.3	37.77	39.59	40.04
1368.8	1169.8	36.62	38.56	43.49
1409.2	1210.2	35.66	37.26	44.73
1469.9	1270.9	33.51	34.82	39.18
1510.4	1311.4	31.91	32.95	35.34
1571.1	1372.1	30.52	31.28	31.99
1611.5	1412.5	31.17	31.75	31.81
1672.2	1473.2	31.76	31.96	31.59
1712.7	1513.7	31.16	31.34	31.08
1773.4	1574.4	31.49	31.54	30.48
1813.8	1614.8	31.22	31.40	30.65
1874.5	1675.5	30.31	30.74	31.13
1915.0	1716.0	29.91	30.14	30.46
1975.7	1776.7	29.65	29.65	29.61
2016.1	1817.1	29.66	29.60	29.48
2076.8	1877.8	29.78	29.70	29.62
2117.3	1918.3	30.07	29.88	29.85
2178.0	1979.0	30.54	30.33	30.33
2218.4	2019.4	30.75	30.60	30.53
2279.1	2080.1	31.23	31.33	31.37

Frequency Mixer

HJK-ED9483/2

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1795MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
519.1	320.1	3.25	2.63	2.08	320.1	66.82	66.82	62.05	10.0	1.51	1.39	1.34
559.6	360.6	2.35	1.94	1.70	360.6	29.96	28.49	24.83	50.0	1.37	1.18	1.04
600.0	401.0	1.89	1.74	1.63	401.0	8.64	8.08	6.86	90.0	1.42	1.24	1.12
640.5	441.5	1.83	1.73	1.64	441.5	1.38	1.39	1.49	130.0	1.50	1.32	1.21
680.9	481.9	1.51	1.53	1.59	481.9	3.26	3.15	2.96	170.0	1.59	1.43	1.33
721.4	522.4	1.67	1.53	1.52	522.4	10.07	9.58	7.73	210.0	1.70	1.53	1.42
761.9	562.9	1.95	1.66	1.53	562.9	18.11	17.22	13.81	250.0	1.83	1.64	1.52
802.3	603.3	2.32	1.90	1.65	603.3	24.48	23.81	19.32	290.0	1.95	1.76	1.63
842.8	643.8	2.50	2.02	1.72	643.8	28.49	27.59	23.18	330.0	2.07	1.86	1.73
883.2	684.2	2.81	2.26	1.90	684.2	30.49	29.96	25.56	370.0	2.20	1.98	1.84
923.7	724.7	2.89	2.38	2.00	724.7	31.03	30.49	26.74	410.0	2.35	2.12	1.97
964.2	765.2	3.06	2.52	2.10	765.2	31.03	30.49	27.16	450.0	2.48	2.21	2.04
1004.6	805.6	3.19	2.60	2.14	805.6	31.03	30.49	28.03	490.0	2.61	2.35	2.18
1045.1	846.1	3.15	2.57	2.11	846.1	29.46	29.46	27.59	530.0	2.68	2.41	2.22
1085.5	886.5	3.20	2.62	2.16	886.5	28.96	29.46	28.03	570.0	2.82	2.54	2.33
1126.0	927.0	3.12	2.58	2.16	927.0	28.49	28.49	27.16	610.0	2.91	2.61	2.39
1166.5	967.5	3.07	2.52	2.07	967.5	26.74	26.33	24.83	650.0	2.96	2.65	2.42
1206.9	1007.9	3.00	2.43	2.01	1007.9	25.56	24.83	23.18	690.0	3.10	2.78	2.54
1247.4	1048.4	2.88	2.33	1.92	1048.4	23.81	23.18	21.46	730.0	3.09	2.77	2.54
1287.8	1088.8	2.80	2.25	1.86	1088.8	22.87	22.29	20.45	770.0	3.20	2.87	2.62
1328.3	1129.3	2.65	2.13	1.76	1129.3	21.46	20.70	18.90	810.0	3.24	2.90	2.65
1368.8	1169.8	2.48	1.99	1.66	1169.8	20.22	19.54	17.75	850.0	3.25	2.89	2.65
1409.2	1210.2	2.33	1.87	1.55	1210.2	18.70	18.11	16.26	890.0	3.29	2.94	2.69
1469.9	1270.9	1.99	1.61	1.35	1270.9	16.11	15.53	13.81	930.0	3.16	2.82	2.59
1510.4	1311.4	1.84	1.49	1.26	1311.4	14.26	13.60	12.09	970.0	3.15	2.82	2.58
1571.1	1372.1	1.61	1.33	1.14	1372.1	11.24	10.69	9.38	1010.0	3.13	2.81	2.58
1611.5	1412.5	1.47	1.21	1.07	1412.5	9.13	8.60	7.50	1050.0	3.07	2.73	2.50
1672.2	1473.2	1.23	1.07	1.14	1473.2	6.11	5.68	4.89	1110.0	2.99	2.68	2.46
1712.7	1513.7	1.12	1.09	1.23	1513.7	4.30	3.95	3.40	1150.0	2.99	2.68	2.47
1773.4	1574.4	1.12	1.33	1.54	1574.4	2.89	2.71	2.36	1210.0	2.87	2.58	2.38
1813.8	1614.8	1.23	1.45	1.65	1614.8	2.44	2.35	2.09	1250.0	2.78	2.49	2.29
1874.5	1675.5	1.31	1.54	1.74	1675.5	3.02	3.04	2.84	1310.0	2.71	2.43	2.24
1915.0	1716.0	1.32	1.56	1.78	1716.0	4.15	4.23	3.99	1350.0	2.71	2.44	2.26
1975.7	1776.7	1.31	1.54	1.78	1776.7	6.76	6.91	6.53	1410.0	2.60	2.36	2.20
2016.1	1817.1	1.31	1.50	1.74	1817.1	8.95	9.13	8.68	1450.0	2.48	2.25	2.10
2076.8	1877.8	1.37	1.49	1.71	1877.8	12.80	12.99	12.26	1510.0	2.36	2.16	2.03
2117.3	1918.3	1.46	1.50	1.68	1918.3	15.53	15.53	14.87	1550.0	2.34	2.16	2.05
2178.0	1979.0	1.60	1.60	1.73	1979.0	19.76	19.76	18.70	1610.0	2.29	2.15	2.06
2218.4	2019.4	1.74	1.70	1.78	2019.4	22.00	21.73	20.70	1650.0	2.23	2.11	2.04
2279.1	2080.1	1.91	1.85	1.88	2080.1	25.19	24.83	23.49	1710.0	2.16	2.09	2.08

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	13	26	34	33	47	35	52	55	55	57
1	-	23	+0	35	17	39	27	56	36	48	47	61
2	60	43	43	38	42	40	48	48	55	54	61	63
3	>90	55	46	61	43	63	49	66	53	65	63	63
4	>90	69	73	69	81	64	66	63	71	68	78	81
5	>90	>81	>81	>81	74	>81	71	>81	72	>81	74	78
6	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
7	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
8	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
9	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
10	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1747.5 MHz; -1.00 dBm.
LO IN: 1548.5 MHz; +7.00 dBm
IF OUT: 199 MHz; -8.8 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	21	46	39	41	47	44	54	60	59	60
1	-	22	+0	34	18	35	29	47	43	48	59	60
2	40	34	33	29	34	37	41	46	55	60	62	66
3	71	39	29	50	28	58	35	54	43	69	53	67
4	>90	50	55	49	56	43	49	48	57	55	63	69
5	>90	71	68	57	45	64	43	57	49	80	57	70
6	>90	73	67	63	68	56	65	55	63	61	66	65
7	>90	78	81	74	79	70	57	74	56	76	59	75
8	>90	>91	83	90	83	83	90	67	76	62	69	66
9	>90	81	>91	89	90	80	83	75	69	75	67	73
10	>90	>91	86	>91	>91	88	83	82	81	74	80	70
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1747.5 MHz; 9.00 dBm.
LO IN: 1548.5 MHz; +7.00 dBm
IF OUT: 199 MHz; 0.96 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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