

Frequency Mixer

TAK-7

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=+1dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+4	+7	+10			+4	+7	+10			+4	+7	+10
1.0	31.0	6.07	5.81	5.46	10.1	40.1	16.03	16.18	15.02	10.1	40.1	1.09	0.68	0.46
10.0	40.0	6.08	5.74	5.59	51.1	81.1	12.72	12.41	12.84	51.1	81.1	1.05	0.77	0.46
51.1	81.1	6.31	5.86	5.66	92.0	122.0	10.57	12.32	21.03	92.0	122.0	1.07	0.66	0.45
92.0	122.0	6.25	5.84	5.66	133.0	163.0	10.64	18.07	16.21	133.0	163.0	1.13	0.70	0.52
133.0	163.0	6.28	5.86	5.67	173.9	203.9	13.55	16.99	15.14	173.9	203.9	1.18	0.76	0.57
173.9	203.9	6.32	5.89	5.70	214.9	244.9	15.80	14.09	14.16	214.9	244.9	1.24	0.83	0.64
214.9	244.9	6.31	5.94	5.72	255.8	285.8	20.49	13.97	13.98	255.8	285.8	1.28	0.94	0.70
255.8	285.8	6.43	6.00	5.80	296.8	326.8	11.23	12.16	13.63	296.8	326.8	1.31	1.02	0.84
296.8	326.8	6.43	5.94	5.73	337.7	367.7	9.75	9.70	11.42	337.7	367.7	1.37	1.05	0.89
337.7	367.7	6.57	6.19	5.89	378.7	408.7	9.44	11.26	12.24	378.7	408.7	1.13	0.94	0.83
378.7	408.7	6.90	6.41	6.23	419.6	449.6	9.14	11.63	14.58	419.6	449.6	1.02	0.84	0.72
419.6	449.6	7.04	6.62	6.37	440.1	470.1	8.74	10.91	13.46	440.1	470.1	0.97	0.77	0.69
440.1	470.1	7.15	6.70	6.45	481.1	511.1	9.71	9.45	10.73	481.1	511.1	1.09	0.80	0.69
481.1	511.1	7.02	6.70	6.45	501.5	531.5	10.09	9.72	10.03	501.5	531.5	1.22	0.93	0.79
501.5	531.5	6.95	6.63	6.41	542.5	572.5	11.51	12.01	11.48	542.5	572.5	1.40	1.11	0.92
542.5	572.5	6.76	6.39	6.21	563.0	593.0	10.41	13.04	11.82	563.0	593.0	1.45	1.22	1.04
563.0	593.0	6.59	6.26	6.07	603.9	633.9	9.63	12.94	14.58	603.9	633.9	1.50	1.35	1.19
603.9	633.9	6.40	5.99	5.84	624.4	654.4	9.30	13.12	16.30	624.4	654.4	1.51	1.41	1.27
624.4	654.4	6.40	5.95	5.75	665.3	695.3	10.06	12.65	15.18	665.3	695.3	1.29	1.28	1.19
665.3	695.3	6.54	5.92	5.65	685.8	715.8	9.58	11.93	13.86	685.8	715.8	1.16	1.10	1.05
685.8	715.8	6.62	5.98	5.68	726.8	756.8	7.01	8.24	9.36	726.8	756.8	0.99	0.78	0.73
747.2	777.2	6.68	6.20	5.90	747.2	777.2	6.59	7.47	8.64	747.2	777.2	1.02	0.75	0.65
788.2	818.2	6.67	6.17	5.85	788.2	818.2	6.09	6.60	7.51	788.2	818.2	1.07	0.72	0.54
808.7	838.7	6.69	6.21	5.91	808.7	838.7	5.93	6.59	7.50	808.7	838.7	1.08	0.71	0.52
849.6	879.6	6.78	6.31	6.01	849.6	879.6	5.06	6.13	7.35	849.6	879.6	1.13	0.70	0.48
870.1	900.1	6.83	6.35	6.06	870.1	900.1	5.02	5.97	7.76	870.1	900.1	1.10	0.70	0.49
911.1	941.1	7.02	6.62	6.30	911.1	941.1	4.58	5.75	7.82	911.1	941.1	1.12	0.69	0.47
931.5	961.5	7.14	6.71	6.42	931.5	961.5	4.52	6.01	8.39	931.5	961.5	1.11	0.68	0.45
972.5	1002.5	7.35	6.95	6.74	972.5	1002.5	4.18	6.33	9.23	972.5	1002.5	1.08	0.68	0.47
993.0	1023.0	7.53	7.15	6.87	993.0	1023.0	4.43	6.80	10.80	993.0	1023.0	1.05	0.66	0.47
1033.9	1063.9	7.87	7.52	7.28	1033.9	1063.9	5.15	8.38	12.14	1033.9	1063.9	1.03	0.65	0.47
1054.4	1084.4	8.07	7.66	7.36	1054.4	1084.4	5.85	9.11	12.50	1054.4	1084.4	1.03	0.66	0.47
1095.3	1125.3	8.47	8.02	7.67	1095.3	1125.3	8.90	12.53	15.02	1095.3	1125.3	1.00	0.65	0.44
1115.8	1145.8	8.63	8.12	7.82	1115.8	1145.8	10.57	11.31	15.38	1115.8	1145.8	0.99	0.66	0.41
1156.8	1186.8	8.91	8.44	8.15	1156.8	1186.8	8.81	10.62	15.32	1156.8	1186.8	1.05	0.61	0.31
1177.2	1207.2	9.06	8.56	8.40	1177.2	1207.2	8.72	10.15	14.59	1177.2	1207.2	1.04	0.57	0.29
1218.2	1248.2	9.42	9.05	8.95	1218.2	1248.2	9.55	12.72	16.36	1218.2	1248.2	0.89	0.44	0.28
1238.7	1268.7	9.66	9.32	9.23	1238.7	1268.7	10.54	13.31	16.05	1238.7	1268.7	0.83	0.41	0.30
1279.6	1309.6	10.22	9.91	9.88	1279.6	1309.6	12.38	13.06	15.83	1279.6	1309.6	0.79	0.45	0.41
1300.1	1330.1	10.46	10.20	10.18	1300.1	1330.1	12.90	14.06	14.72	1300.1	1330.1	0.77	0.50	0.47

REV. X2
TAK-7
100818
Page 1 of 5



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Frequency Mixer

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=500.1MHz (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)=1000.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
490.0	10.1	6.92	10.0	20.1	5.77	500.0	500.1	6.81
477.7	22.4	6.91	22.6	32.7	5.70	487.4	512.7	6.78
465.4	34.7	6.91	35.1	45.2	5.76	474.9	525.2	6.80
453.1	47.0	6.93	47.7	57.8	5.73	462.3	537.8	6.83
440.8	59.3	7.04	60.3	70.4	5.77	449.7	550.4	6.90
428.5	71.6	7.10	72.8	82.9	5.80	437.2	562.9	6.95
416.2	83.9	7.16	85.4	95.5	5.80	424.6	575.5	6.99
403.8	96.3	7.12	97.9	108.0	5.73	412.1	588.0	7.05
391.5	108.6	7.07	110.5	120.6	5.73	399.5	600.6	7.05
379.2	120.9	7.01	123.1	133.2	5.68	386.9	613.2	7.07
366.9	133.2	6.96	135.6	145.7	5.67	374.4	625.7	7.04
354.6	145.5	6.91	148.2	158.3	5.67	361.8	638.3	6.99
342.3	157.8	6.91	160.8	170.9	5.67	349.2	650.9	6.98
330.0	170.1	6.97	173.3	183.4	5.68	336.7	663.4	6.95
317.7	182.4	6.96	185.9	196.0	5.68	324.1	676.0	6.90
305.4	194.7	6.89	198.5	208.6	5.65	311.5	688.6	6.89
293.1	207.0	6.84	211.0	221.1	5.66	299.0	701.1	6.87
280.8	219.3	6.76	223.6	233.7	5.64	286.4	713.7	6.86
268.5	231.6	6.76	236.2	246.3	5.62	273.8	726.3	6.84
256.2	243.9	6.79	248.7	258.8	5.65	261.3	738.8	6.77
243.8	256.3	6.79	261.3	271.4	5.66	248.7	751.4	6.71
231.5	268.6	6.83	273.8	283.9	5.68	236.2	763.9	6.64
219.2	280.9	6.87	286.4	296.5	5.71	223.6	776.5	6.58
206.9	293.2	6.91	299.0	309.1	5.69	211.0	789.1	6.60
194.6	305.5	6.96	311.5	321.6	5.72	198.5	801.6	6.59
182.3	317.8	6.93	324.1	334.2	5.75	185.9	814.2	6.62
170.0	330.1	6.93	336.7	346.8	5.75	173.3	826.8	6.66
157.7	342.4	6.91	349.2	359.3	5.80	160.8	839.3	6.65
145.4	354.7	6.91	361.8	371.9	5.80	148.2	851.9	6.67
133.1	367.0	6.97	374.4	384.5	5.83	135.6	864.5	6.66
120.8	379.3	6.96	386.9	397.0	5.89	123.1	877.0	6.64
108.5	391.6	6.94	399.5	409.6	5.90	110.5	889.6	6.69
96.2	403.9	6.95	412.1	422.2	5.97	97.9	902.2	6.68
83.8	416.3	6.90	424.6	434.7	6.02	85.4	914.7	6.68
71.5	428.6	6.92	437.2	447.3	6.06	72.8	927.3	6.72
59.2	440.9	6.94	449.7	459.8	6.16	60.3	939.8	6.73
46.9	453.2	6.87	462.3	472.4	6.22	47.7	952.4	6.78
34.6	465.5	6.88	474.9	485.0	6.28	35.1	965.0	6.83
22.3	477.8	6.81	487.4	497.5	6.33	22.6	977.5	6.83
10.0	490.1	6.79	500.0	510.1	6.34	10.0	990.1	6.97

REV. X2
TAK-7
100818
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)		
	+4	+7	+10	+4	+7	+10
1.0	62.60	62.40	66.00	64.00	66.60	70.00
10.0	64.00	67.00	70.00	64.00	67.00	70.00
51.1	67.04	72.57	66.36	67.68	65.31	62.77
92.0	60.43	66.81	65.97	63.67	61.30	59.06
133.0	57.11	65.69	62.49	60.79	57.20	55.30
173.9	53.48	60.66	63.56	58.31	55.42	53.05
214.9	51.65	59.56	62.46	56.12	53.34	51.64
255.8	50.41	57.64	62.05	54.26	51.30	49.89
296.8	49.26	55.53	61.08	52.34	50.17	48.52
337.7	48.03	54.57	58.99	51.96	49.63	48.11
378.7	46.53	49.76	52.36	50.38	48.19	46.92
419.6	47.28	49.75	51.10	48.14	46.12	44.74
440.1	47.46	50.78	52.11	47.43	45.65	44.57
481.1	46.48	52.81	55.32	45.81	44.15	43.34
501.5	45.92	49.20	51.25	45.36	43.78	42.89
542.5	45.61	46.68	47.30	45.26	43.96	43.04
563.0	44.82	44.89	44.82	45.31	43.96	43.17
603.9	43.48	41.85	40.66	45.35	43.72	42.72
624.4	43.51	41.04	39.45	45.16	43.24	42.06
665.3	45.42	42.83	40.43	45.26	43.17	41.39
685.8	45.77	45.28	42.38	45.54	43.60	41.81
747.2	34.43	34.97	35.14	40.95	40.62	40.06
788.2	32.13	32.25	32.56	38.41	37.97	37.63
808.7	31.33	31.29	31.60	37.36	36.86	36.56
849.6	29.94	29.92	30.24	35.90	35.22	34.94
870.1	29.32	29.29	29.63	35.16	34.51	34.24
911.1	28.23	28.44	28.74	33.99	33.59	33.20
931.5	27.83	28.07	28.38	33.22	32.86	32.46
972.5	26.82	27.40	27.84	32.17	32.07	31.88
993.0	26.40	27.05	27.48	31.69	31.75	31.72
1033.9	25.64	26.57	26.97	30.80	31.10	31.20
1054.4	25.36	26.29	26.47	30.50	30.87	30.93
1095.3	24.98	25.84	25.69	29.87	30.42	30.45
1115.8	24.88	25.54	25.22	29.82	30.33	30.15
1156.8	24.68	25.10	24.92	29.36	29.87	29.72
1177.2	24.54	24.99	24.83	29.43	29.96	29.87
1218.2	24.29	24.84	24.78	28.92	29.53	29.56
1238.7	24.26	24.86	24.85	28.91	29.60	29.67
1279.6	23.98	24.89	25.08	28.49	29.42	29.67
1300.1	23.86	24.98	25.33	28.20	29.30	29.70

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	45.73	45.48	45.60
51.1	81.1	42.36	43.15	43.53
92.0	122.0	38.49	40.33	40.28
133.0	163.0	37.03	38.60	39.01
173.9	203.9	37.29	38.49	40.13
214.9	244.9	37.09	38.63	41.65
255.8	285.8	33.38	33.76	33.52
296.8	326.8	29.75	30.01	30.40
337.7	367.7	27.58	28.42	29.30
378.7	408.7	24.88	24.85	24.91
419.6	449.6	22.11	21.74	21.40
440.1	470.1	21.23	20.73	20.37
481.1	511.1	19.91	19.51	19.17
501.5	531.5	19.56	19.19	18.87
542.5	572.5	19.52	19.33	19.26
563.0	593.0	19.55	19.48	19.50
603.9	633.9	20.27	20.46	20.88
624.4	654.4	20.70	21.18	21.70
665.3	695.3	21.64	21.87	22.15
685.8	715.8	22.03	21.85	21.70
726.8	756.8	22.67	22.30	21.53
747.2	777.2	22.54	22.11	21.29
788.2	818.2	20.42	20.05	19.42
808.7	838.7	19.25	18.84	18.24
849.6	879.6	16.85	16.44	15.73
870.1	900.1	15.85	15.36	14.76
911.1	941.1	14.12	13.55	12.94
931.5	961.5	13.41	12.84	12.14
972.5	1002.5	12.12	11.41	10.79
993.0	1023.0	11.55	10.82	10.17
1033.9	1063.9	10.50	9.73	9.06
1054.4	1084.4	10.02	9.25	8.58
1095.3	1125.3	9.09	8.27	7.71
1115.8	1145.8	8.63	7.87	7.34
1156.8	1186.8	7.97	7.23	6.84
1177.2	1207.2	7.72	7.04	6.69
1218.2	1248.2	7.35	6.81	6.49
1238.7	1268.7	7.26	6.74	6.47
1279.6	1309.6	7.22	6.73	6.53
1300.1	1330.1	7.21	6.77	6.57



Frequency Mixer

TAK-7

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1000.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
5.0	53.0	1.94	1.73	1.58	5.0	2.14	3.13	4.78	5.0	1.32	1.39	1.45
10.0	40.0	1.94	1.73	1.59	10.0	2.01	2.99	4.46	10.0	1.23	1.31	1.37
51.1	81.1	1.33	1.19	1.06	51.1	1.79	2.60	3.70	22.6	1.07	1.07	1.09
92.0	122.0	1.40	1.18	1.11	92.0	1.68	2.38	3.29	35.1	1.09	1.10	1.10
133.0	163.0	1.43	1.26	1.20	133.0	1.76	2.55	3.59	47.7	1.13	1.14	1.16
173.9	203.9	1.49	1.37	1.28	173.9	1.70	2.42	3.35	60.3	1.11	1.14	1.15
214.9	244.9	1.64	1.49	1.40	214.9	1.76	2.52	3.50	72.8	1.12	1.13	1.15
255.8	285.8	1.81	1.65	1.53	255.8	1.78	2.53	3.47	85.4	1.13	1.13	1.13
296.8	326.8	1.98	1.80	1.66	296.8	1.79	2.53	3.44	97.9	1.15	1.14	1.12
337.7	367.7	2.20	1.98	1.81	337.7	1.87	2.62	3.56	110.5	1.18	1.16	1.14
378.7	408.7	2.42	2.18	2.00	378.7	1.88	2.59	3.48	123.1	1.21	1.19	1.17
419.6	449.6	2.62	2.36	2.20	419.6	1.98	2.72	3.63	135.6	1.22	1.19	1.19
440.1	470.1	2.70	2.43	2.25	440.1	2.00	2.73	3.60	148.2	1.22	1.20	1.19
481.1	511.1	2.75	2.49	2.34	481.1	2.04	2.74	3.59	160.8	1.23	1.22	1.19
501.5	531.5	2.76	2.52	2.35	501.5	2.09	2.81	3.67	173.3	1.24	1.22	1.19
542.5	572.5	2.73	2.50	2.34	542.5	2.15	2.86	3.70	185.9	1.26	1.23	1.19
563.0	593.0	2.69	2.45	2.29	563.0	2.16	2.85	3.68	198.5	1.28	1.24	1.21
603.9	633.9	2.60	2.30	2.10	603.9	2.25	2.93	3.74	211.0	1.30	1.26	1.22
624.4	654.4	2.57	2.22	2.00	624.4	2.29	2.95	3.73	223.6	1.31	1.27	1.23
665.3	695.3	2.62	2.19	1.93	665.3	2.35	2.96	3.71	236.2	1.33	1.29	1.25
685.8	715.8	2.67	2.27	2.03	685.8	2.42	3.04	3.78	248.7	1.34	1.29	1.25
726.8	756.8	2.67	2.31	2.08	726.8	2.54	3.17	3.89	261.3	1.33	1.28	1.24
747.2	777.2	2.61	2.25	2.01	747.2	2.57	3.20	3.90	273.8	1.32	1.27	1.23
788.2	818.2	2.48	2.13	1.86	788.2	2.67	3.31	4.02	286.4	1.32	1.27	1.23
808.7	838.7	2.44	2.09	1.81	808.7	2.72	3.36	4.07	299.0	1.33	1.27	1.23
849.6	879.6	2.36	2.00	1.71	849.6	2.78	3.39	4.08	311.5	1.34	1.28	1.24
870.1	900.1	2.30	1.96	1.67	870.1	2.81	3.42	4.10	324.1	1.33	1.28	1.24
911.1	941.1	2.23	1.91	1.64	911.1	2.89	3.48	4.14	336.7	1.33	1.27	1.24
931.5	961.5	2.18	1.88	1.63	931.5	2.92	3.48	4.14	349.2	1.31	1.26	1.22
972.5	1002.5	2.09	1.82	1.63	972.5	2.95	3.48	4.10	361.8	1.29	1.24	1.20
993.0	1023.0	2.05	1.80	1.64	993.0	2.98	3.49	4.09	374.4	1.28	1.22	1.19
1033.9	1063.9	1.99	1.80	1.70	1033.9	3.01	3.47	4.03	386.9	1.27	1.21	1.18
1054.4	1084.4	1.96	1.82	1.76	1054.4	3.03	3.46	4.00	399.5	1.27	1.21	1.17
1095.3	1125.3	2.00	1.94	1.96	1095.3	3.04	3.40	3.91	412.1	1.26	1.19	1.16
1115.8	1145.8	2.03	2.01	2.07	1115.8	3.07	3.40	3.91	424.6	1.25	1.19	1.15
1156.8	1186.8	2.18	2.24	2.34	1156.8	3.14	3.45	3.95	437.2	1.23	1.17	1.14
1177.2	1207.2	2.28	2.37	2.48	1177.2	3.21	3.50	3.98	449.7	1.21	1.15	1.12
1218.2	1248.2	2.47	2.62	2.75	1218.2	3.40	3.63	4.06	462.3	1.20	1.13	1.11
1238.7	1268.7	2.59	2.75	2.89	1238.7	3.52	3.73	4.12	474.9	1.18	1.12	1.09
1279.6	1309.6	2.77	2.97	3.11	1279.6	3.74	3.85	4.18	487.4	1.17	1.10	1.07
1300.1	1330.1	2.86	3.08	3.22	1300.1	3.84	3.90	4.21	500.0	1.16	1.08	1.04

REV. X2
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Page 4 of 5



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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	19	23	13	32	11	31	29	57	41	62
1	-	13	+0	26	12	29	47	42	39	55	69	65
2	>100	65	57	61	56	67	59	68	52	70	70	>79
3	>100	61	54	62	53	60	54	65	75	77	69	>79
4	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
5	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
6	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
7	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
8	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
9	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
10	>100	>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: 500.1 MHz; -14.00 dBm.
 LO IN: 530.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -20.54 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	28	33	24	44	23	45	42	69	53	77
1	-	13	+0	27	13	32	49	47	47	61	71	66
2	95	59	51	56	52	66	50	60	45	71	63	80
3	>100	46	41	46	39	45	39	51	55	61	57	75
4	>100	80	77	80	70	79	63	77	71	76	65	77
5	>100	72	70	60	55	59	53	57	54	67	73	75
6	>100	86	89	>89	>89	88	>89	>89	82	88	88	87
7	>100	>89	86	>89	86	76	72	72	71	69	70	81
8	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
9	>100	>89	>89	>89	>89	>89	>89	>89	88	84	85	82
10	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 500.1 MHz; -4.00 dBm.
 LO IN: 530.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -10.55 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
 TAK-7
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Page 5 of 5



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