

Frequency Mixer

SAY-11+

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=+20dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+20	+23	+26			+20	+23	+26			+20	+23	+26
10.1	40.1	8.02	7.39	7.08	10.1	40.1	35.31	33.03	33.66	10.1	40.1	0.87	0.30	0.17
20.1	50.1	7.85	7.26	6.99	20.1	50.1	31.62	33.35	33.96	20.1	50.1	1.04	0.44	0.24
50.1	80.1	7.96	7.32	7.06	50.1	80.1	34.51	33.83	33.71	50.1	80.1	0.88	0.29	0.12
70.1	100.1	8.28	7.51	7.19	70.1	100.1	32.13	32.46	33.49	70.1	100.1	0.62	0.16	0.04
100.1	130.1	8.30	7.56	7.21	100.1	130.1	31.03	31.92	33.87	100.1	130.1	0.57	0.15	0.04
140.1	170.1	8.15	7.49	7.23	140.1	170.1	32.88	38.80	33.67	140.1	170.1	0.65	0.30	0.12
180.1	210.1	8.26	7.52	7.27	180.1	210.1	33.34	31.64	31.09	180.1	210.1	0.72	0.22	0.04
220.1	250.1	8.11	7.54	7.32	220.1	250.1	32.30	32.50	31.21	220.1	250.1	0.85	0.30	0.13
260.1	290.1	8.20	7.47	7.20	260.1	290.1	33.68	30.92	30.77	260.1	290.1	0.81	0.32	0.19
300.1	330.1	8.45	7.76	7.41	300.1	330.1	31.00	30.07	29.65	300.1	330.1	0.67	0.21	0.13
350.1	380.1	8.19	7.56	7.28	350.1	380.1	38.11	30.28	32.41	350.1	380.1	0.83	0.35	0.23
400.1	430.1	8.57	7.89	7.47	400.1	430.1	29.63	28.81	31.26	400.1	430.1	0.59	0.20	0.16
500.1	530.1	8.64	7.87	7.46	500.1	530.1	27.92	27.91	32.41	500.1	530.1	0.53	0.33	0.25
600.1	630.1	8.57	7.75	7.42	600.1	630.1	28.55	30.44	39.94	600.1	630.1	0.71	0.48	0.29
700.1	730.1	8.32	7.60	7.36	700.1	730.1	28.35	32.66	36.41	700.1	730.1	0.94	0.56	0.31
800.1	830.1	8.15	7.53	7.32	800.1	830.1	28.13	34.78	35.73	800.1	830.1	1.19	0.69	0.42
900.1	930.1	8.10	7.54	7.36	900.1	930.1	28.68	39.46	33.11	900.1	930.1	1.23	0.73	0.47
1000.1	1030.1	8.07	7.57	7.34	1000.1	1030.1	29.82	41.93	34.52	1000.1	1030.1	1.21	0.76	0.54
1100.1	1130.1	8.10	7.58	7.40	1100.1	1130.1	33.79	34.04	34.93	1100.1	1130.1	1.09	0.72	0.54
1200.1	1230.1	8.20	7.78	7.61	1200.1	1230.1	34.73	32.44	32.13	1200.1	1230.1	0.91	0.51	0.42
1300.1	1330.1	8.15	7.77	7.65	1300.1	1330.1	34.01	31.59	32.16	1300.1	1330.1	0.93	0.47	0.38
1400.1	1430.1	8.10	7.71	7.59	1400.1	1430.1	37.98	30.95	31.85	1400.1	1430.1	1.00	0.50	0.38
1500.1	1530.1	8.13	7.70	7.58	1500.1	1530.1	33.96	31.88	29.93	1500.1	1530.1	1.01	0.47	0.32
1600.1	1630.1	8.21	7.67	7.50	1600.1	1630.1	32.06	37.19	37.03	1600.1	1630.1	1.18	0.66	0.41
1700.1	1730.1	8.31	7.82	7.57	1700.1	1730.1	32.12	35.89	42.67	1700.1	1730.1	1.25	0.70	0.46
1800.1	1830.1	8.38	7.78	7.55	1800.1	1830.1	30.80	35.44	38.84	1800.1	1830.1	1.36	0.84	0.63
1900.1	1930.1	8.59	7.93	7.64	1900.1	1930.1	35.09	33.60	33.75	1900.1	1930.1	1.33	0.95	0.83
2000.1	2030.1	8.81	8.25	7.90	2000.1	2030.1	32.66	32.61	32.60	2000.1	2030.1	1.22	0.83	0.85
2100.1	2130.1	8.69	8.29	8.01	2100.1	2130.1	29.84	29.34	29.71	2100.1	2130.1	1.43	0.86	0.85
2250.1	2280.1	8.41	8.02	7.87	2250.1	2280.1	30.11	30.98	30.21	2250.1	2280.1	1.75	1.05	0.92
2400.1	2430.1	8.34	7.93	7.75	2400.1	2430.1	29.06	31.35	31.20	2400.1	2430.1	2.00	1.22	1.03
2550.1	2580.1	8.62	8.09	7.84	2550.1	2580.1	26.51	28.45	29.32	2550.1	2580.1	1.80	1.06	0.85
2700.1	2730.1	8.90	8.36	8.15	2700.1	2730.1	26.47	28.15	29.87	2700.1	2730.1	1.85	1.18	0.98
2850.1	2880.1	9.76	9.19	8.94	2850.1	2880.1	27.32	27.62	28.97	2850.1	2880.1	1.61	1.05	0.91
3000.1	3030.1	10.46	9.88	9.64	3000.1	3030.1	28.45	29.15	30.95	3000.1	3030.1	1.56	1.09	1.07
3200.1	3230.1	10.12	9.55	9.30	3200.1	3230.1	27.53	29.77	29.96	3200.1	3230.1	2.09	1.20	0.92
3400.1	3430.1	10.51	10.00	9.77	3400.1	3430.1	24.48	25.93	25.85	3400.1	3430.1	2.27	1.16	0.73
3600.1	3630.1	11.80	11.25	11.11	3600.1	3630.1	25.27	28.12	30.95	3600.1	3630.1	2.36	1.04	0.65
3800.1	3830.1	13.18	12.61	12.55	3800.1	3830.1	23.69	28.65	29.54	3800.1	3830.1	2.65	1.35	0.80
4000.1	4030.1	15.03	14.13	14.08	4000.1	4030.1	22.15	24.10	26.93	4000.1	4030.1	3.03	1.64	0.63

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

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1200.1MHz (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)=2400.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+23			+23			+23
5.0	1195.1	7.78	5.0	15.1	7.24	5.0	2395.1	8.03
10.0	1190.1	7.71	10.0	20.1	7.20	10.0	2390.1	7.91
15.0	1185.1	7.70	15.0	25.1	7.23	15.0	2385.1	7.86
20.0	1180.1	7.74	20.0	30.1	7.31	20.0	2380.1	7.86
25.0	1175.1	7.77	25.0	35.1	7.34	25.0	2375.1	7.85
30.0	1170.1	7.78	30.0	40.1	7.30	30.0	2370.1	7.87
40.0	1160.1	7.74	40.0	50.1	7.21	40.0	2360.1	7.90
50.0	1150.1	7.72	50.0	60.1	7.35	50.0	2350.1	7.89
60.0	1140.1	7.77	60.0	70.1	7.37	60.0	2340.1	7.88
80.0	1120.1	7.81	80.0	90.1	7.33	80.0	2320.1	7.94
100.0	1100.1	7.75	100.0	110.1	7.35	100.0	2300.1	8.01
120.0	1080.1	7.81	120.0	130.1	7.53	120.0	2280.1	7.99
140.0	1060.1	7.74	140.0	150.1	7.33	140.0	2260.1	7.97
160.0	1040.1	7.82	160.0	170.1	7.48	160.0	2240.1	7.97
185.0	1015.1	7.77	185.0	195.1	7.49	185.0	2215.1	8.04
210.0	990.1	7.69	210.0	220.1	7.46	210.0	2190.1	8.02
235.0	965.1	7.68	235.0	245.1	7.41	235.0	2165.1	8.01
260.0	940.1	7.70	260.0	270.1	7.45	260.0	2140.1	7.97
285.0	915.1	7.61	285.0	295.1	7.48	285.0	2115.1	8.05
310.0	890.1	7.56	310.0	320.1	7.41	310.0	2090.1	8.03
340.0	860.1	7.53	340.0	350.1	7.32	340.0	2060.1	8.02
370.0	830.1	7.56	370.0	380.1	7.30	370.0	2030.1	8.11
400.0	800.1	7.49	400.0	410.1	7.36	400.0	2000.1	8.21
430.0	770.1	7.52	430.0	440.1	7.44	430.0	1970.1	8.29
460.0	740.1	7.55	460.0	470.1	7.43	460.0	1940.1	8.36
490.0	710.1	7.47	490.0	500.1	7.35	490.0	1910.1	8.45
520.0	680.1	7.55	520.0	530.1	7.44	520.0	1880.1	8.55
550.0	650.1	7.57	550.0	560.1	7.36	550.0	1850.1	8.56
580.0	620.1	7.67	580.0	590.1	7.29	580.0	1820.1	8.70
610.0	590.1	7.62	610.0	620.1	7.31	610.0	1790.1	8.66
640.0	560.1	7.72	640.0	650.1	7.22	640.0	1760.1	8.66
670.0	530.1	7.84	670.0	680.1	7.23	670.0	1730.1	8.72
700.0	500.1	7.69	700.0	710.1	7.22	700.0	1700.1	8.60
730.0	470.1	7.80	730.0	740.1	7.21	730.0	1670.1	8.50
760.0	440.1	7.82	760.0	770.1	7.22	760.0	1640.1	8.49
800.0	400.1	7.92	800.0	810.1	7.25	800.0	1600.1	8.40
850.0	350.1	7.82	850.0	860.1	7.28	850.0	1550.1	8.35
900.0	300.1	7.97	900.0	910.1	7.37	900.0	1500.1	8.25
950.0	250.1	7.86	950.0	960.1	7.43	950.0	1450.1	8.22
1000.0	200.1	8.05	1000.0	1010.1	7.51	1000.0	1400.1	8.20

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LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+20	+23	+26	+20	+23	+26
10.1	40.09	43.64	48.14	27.49	31.15	34.03
20.1	41.63	46.13	50.27	27.92	31.52	34.49
50.1	41.97	46.51	49.99	27.43	30.93	33.88
70.1	41.13	45.92	49.75	27.07	30.33	33.11
100.1	41.04	45.89	49.52	26.75	29.75	32.24
140.1	42.00	46.45	47.49	26.40	29.36	32.12
180.1	42.85	46.47	46.81	26.08	29.20	31.88
220.1	44.02	45.34	44.53	25.70	29.11	31.67
260.1	45.01	45.76	44.65	25.43	28.92	31.40
300.1	44.20	42.33	40.88	25.37	28.68	30.52
350.1	42.58	40.93	40.90	26.15	29.33	30.93
400.1	41.09	38.49	38.12	25.75	28.84	29.77
500.1	37.68	35.78	35.97	26.56	28.75	29.32
600.1	34.82	34.58	34.76	27.33	28.69	28.80
700.1	33.67	33.81	33.66	27.49	28.50	28.18
800.1	32.91	33.02	32.99	27.54	27.82	27.11
900.1	32.91	32.88	32.57	27.47	27.31	26.26
1000.1	33.43	33.47	33.04	27.15	26.64	25.48
1100.1	33.87	34.20	33.58	26.72	25.99	24.81
1200.1	33.92	34.43	33.80	26.53	25.75	24.55
1300.1	34.56	34.36	33.70	26.62	25.68	24.42
1400.1	34.88	35.83	34.74	26.94	25.56	24.16
1500.1	35.88	36.37	34.72	26.89	25.63	24.38
1600.1	38.32	36.59	34.38	26.43	25.38	24.58
1700.1	39.61	35.99	33.65	26.69	25.61	24.83
1800.1	39.62	36.77	34.39	27.04	26.16	25.44
1900.1	39.92	36.62	34.62	26.90	26.00	25.46
2000.1	40.11	37.81	35.74	26.66	25.92	25.52
2100.1	40.42	38.99	37.06	26.71	25.99	25.55
2250.1	40.50	39.33	38.08	26.65	25.80	25.05
2400.1	40.65	38.83	38.17	27.00	26.88	26.62
2550.1	38.36	38.65	37.87	27.99	27.80	27.25
2700.1	34.18	34.24	33.53	27.68	28.04	28.38
2850.1	28.14	28.21	27.91	28.62	30.34	31.05
3000.1	23.76	23.97	24.13	32.68	37.15	38.50
3200.1	23.79	24.31	24.67	31.69	37.77	45.28
3400.1	24.73	26.73	28.41	29.89	34.87	39.92
3600.1	24.85	26.49	28.09	28.42	32.65	35.65
3800.1	25.04	26.85	29.06	27.11	30.59	33.86
4000.1	24.83	26.62	29.00	25.77	29.76	32.75

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+20	+23	+26
10.1	40.1	17.02	16.54	16.42
20.1	50.1	17.10	16.75	16.75
50.1	80.1	16.81	16.55	16.22
70.1	100.1	17.01	16.52	16.01
100.1	130.1	17.39	16.71	16.67
140.1	170.1	17.40	17.34	17.35
180.1	210.1	17.34	17.20	16.84
220.1	250.1	16.92	16.57	16.45
260.1	290.1	16.39	16.40	16.22
300.1	330.1	17.80	17.45	17.44
350.1	380.1	17.25	17.26	17.12
400.1	430.1	18.19	17.84	17.91
500.1	530.1	19.13	18.85	19.05
600.1	630.1	19.60	19.42	19.79
700.1	730.1	20.12	19.77	19.86
800.1	830.1	19.95	19.18	18.92
900.1	930.1	19.58	18.63	18.22
1000.1	1030.1	19.23	18.44	18.09
1100.1	1130.1	20.27	19.07	18.52
1200.1	1230.1	21.36	20.56	20.02
1300.1	1330.1	22.72	21.76	21.39
1400.1	1430.1	23.10	21.78	21.18
1500.1	1530.1	22.92	22.08	21.43
1600.1	1630.1	23.74	23.25	22.50
1700.1	1730.1	22.58	22.49	22.77
1800.1	1830.1	21.75	21.74	22.53
1900.1	1930.1	21.79	21.50	22.09
2000.1	2030.1	22.42	21.57	21.93
2100.1	2130.1	24.48	23.19	22.92
2250.1	2280.1	24.94	25.77	26.41
2400.1	2430.1	24.39	25.96	28.25
2550.1	2580.1	23.40	24.79	26.83
2700.1	2730.1	24.22	25.83	27.52
2850.1	2880.1	22.93	23.56	23.49
3000.1	3030.1	23.35	23.15	22.60
3200.1	3230.1	26.48	27.37	28.74
3400.1	3430.1	27.83	28.46	31.81
3600.1	3630.1	33.01	28.83	27.31
3800.1	3830.1	26.85	24.58	26.37
4000.1	4030.1	26.21	25.75	28.29



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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+20	+23	+26
10.1	40.1	1.20	1.07	1.10
20.1	50.1	1.17	1.04	1.12
50.1	80.1	1.19	1.05	1.11
70.1	100.1	1.24	1.08	1.09
100.1	130.1	1.24	1.10	1.10
140.1	170.1	1.25	1.12	1.13
180.1	210.1	1.25	1.14	1.17
220.1	250.1	1.25	1.17	1.18
260.1	290.1	1.30	1.20	1.20
300.1	330.1	1.33	1.23	1.21
350.1	380.1	1.30	1.23	1.21
400.1	430.1	1.35	1.25	1.21
500.1	530.1	1.32	1.21	1.17
600.1	630.1	1.25	1.12	1.08
700.1	730.1	1.21	1.10	1.05
800.1	830.1	1.30	1.22	1.19
900.1	930.1	1.49	1.41	1.37
1000.1	1030.1	1.69	1.58	1.52
1100.1	1130.1	1.83	1.71	1.64
1200.1	1230.1	1.91	1.78	1.70
1300.1	1330.1	1.86	1.72	1.65
1400.1	1430.1	1.72	1.58	1.50
1500.1	1530.1	1.52	1.40	1.33
1600.1	1630.1	1.33	1.25	1.20
1700.1	1730.1	1.35	1.32	1.30
1800.1	1830.1	1.62	1.58	1.57
1900.1	1930.1	2.04	1.96	1.90
2000.1	2030.1	2.53	2.42	2.31
2100.1	2130.1	2.76	2.60	2.51
2250.1	2280.1	2.42	2.19	2.04
2400.1	2430.1	1.82	1.67	1.57
2550.1	2580.1	1.30	1.29	1.32
2700.1	2730.1	1.25	1.39	1.50
2850.1	2880.1	1.45	1.45	1.48
3000.1	3030.1	1.94	1.76	1.61
3200.1	3230.1	3.76	3.26	2.91
3400.1	3430.1	5.93	7.44	9.48
3600.1	3630.1	5.22	7.31	10.62
3800.1	3830.1	2.20	2.42	2.58
4000.1	4030.1	2.59	2.72	2.81

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+20	+23	+26
10.1	1.23	1.39	1.96
20.1	1.17	1.32	1.78
50.1	1.15	1.30	1.60
70.1	1.20	1.38	1.86
100.1	1.22	1.39	1.97
140.1	1.15	1.30	1.62
180.1	1.22	1.43	2.07
220.1	1.17	1.29	1.61
260.1	1.19	1.43	2.08
300.1	1.18	1.34	1.69
350.1	1.19	1.43	2.05
400.1	1.11	1.37	1.73
500.1	1.09	1.39	1.77
600.1	1.07	1.43	1.80
700.1	1.07	1.43	1.77
800.1	1.09	1.41	1.73
900.1	1.18	1.42	1.73
1000.1	1.29	1.45	1.74
1100.1	1.36	1.44	1.78
1200.1	1.47	1.45	1.83
1300.1	1.54	1.45	1.81
1400.1	1.56	1.43	1.67
1500.1	1.54	1.36	1.49
1600.1	1.50	1.30	1.39
1700.1	1.49	1.28	1.35
1800.1	1.55	1.28	1.33
1900.1	1.61	1.29	1.28
2000.1	1.75	1.32	1.19
2100.1	1.89	1.36	1.11
2250.1	1.80	1.34	1.16
2400.1	1.83	1.41	1.34
2550.1	1.72	1.44	1.49
2700.1	1.50	1.37	1.48
2850.1	1.56	1.39	1.47
3000.1	1.87	1.50	1.51
3200.1	2.02	1.62	1.76
3400.1	1.69	1.84	2.08
3600.1	1.74	2.12	2.52
3800.1	1.95	2.27	2.51
4000.1	2.58	2.77	2.81

IF (OUT) (MHz)	IF VSWR @LO=2400.1MHz (:1)		
	@LO (dBm)		
	+20	+23	+26
5.0	1.16	1.06	1.09
10.0	1.16	1.05	1.08
15.0	1.16	1.05	1.07
20.0	1.17	1.05	1.07
25.0	1.17	1.05	1.06
30.0	1.17	1.05	1.06
40.0	1.18	1.05	1.06
50.0	1.18	1.06	1.06
60.0	1.18	1.06	1.06
80.0	1.18	1.07	1.07
100.0	1.18	1.08	1.08
120.0	1.19	1.09	1.09
140.0	1.21	1.10	1.10
160.0	1.21	1.11	1.11
185.0	1.23	1.13	1.12
210.0	1.24	1.15	1.14
235.0	1.26	1.17	1.15
260.0	1.28	1.19	1.17
285.0	1.28	1.20	1.18
310.0	1.30	1.21	1.19
340.0	1.31	1.23	1.21
370.0	1.32	1.24	1.22
400.0	1.32	1.25	1.22
430.0	1.33	1.26	1.23
460.0	1.33	1.25	1.23
490.0	1.32	1.24	1.23
520.0	1.31	1.24	1.22
550.0	1.29	1.22	1.22
580.0	1.26	1.20	1.20
610.0	1.24	1.19	1.20
640.0	1.22	1.18	1.20
670.0	1.20	1.18	1.21
700.0	1.18	1.18	1.21
730.0	1.18	1.18	1.23
760.0	1.17	1.18	1.22
800.0	1.16	1.17	1.22
850.0	1.16	1.16	1.20
900.0	1.15	1.13	1.16
950.0	1.15	1.10	1.12
1000.0	1.17	1.09	1.06

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	10	28	27	27	37	39	47	66	41	50
1	-	18	+0	34	16	41	24	57	38	60	53	53
2	85	43	37	43	44	45	40	41	49	56	60	72
3	>121	66	40	56	41	51	43	59	54	55	50	62
4	>123	62	60	70	62	60	59	61	52	63	52	59
5	>124	81	71	68	58	71	58	70	61	67	62	62
6	>121	73	70	70	82	76	75	75	74	69	69	74
7	>123	89	79	85	70	78	72	81	67	83	68	76
8	>124	97	89	84	86	86	82	87	90	90	78	82
9	>121	103	93	106	90	106	84	82	93	84	83	93
10	>121	102	97	101	98	98	105	90	96	95	97	96
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1200.1 MHz; 14.96.00 dBm.
 LO IN: 1230.01 MHz; +23.00 dBm
 IF OUT: 29.91 MHz; 7.33 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+0	16	16	14	23	24	29	39	19	35
1	-	18	+0	33	16	41	24	46	37	45	48	50
2	93	54	49	52	52	55	48	52	53	62	58	68
3	>122	75	61	71	61	67	62	74	65	69	63	83
4	>122	89	88	89	89	85	87	87	81	90	77	86
5	>122	104	98	105	96	105	93	98	95	104	94	96
6	>121	113	107	112	108	>123	>123	115	107	>122	106	>121
7	>119	>119	>119	>117	119	>119	>120	>120	>117	>120	>117	>121
8	>121	>121	>118	>119	>120	>121	>122	>121	>120	>121	>121	>124
9	>119	>121	>123	>121	>121	>123	>122	>121	>121	>121	>121	>121
10	>120	>121	>120	>123	>121	>119	>121	>123	>123	>123	>121	>124
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1200.1 MHz; 4.98.00 dBm.
 LO IN: 1230.01 MHz; +23.00 dBm
 IF OUT: 29.91 MHz; -2.59 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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