

Frequency Mixer

SYM-25H

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=+10dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+14	+17	+20			+14	+17	+20			+14	+17	+20
10.1	40.1	5.82	5.35	5.17	10.1	40.1	25.37	29.22	26.95	10.1	40.1	0.14	0.08	0.07
90.4	120.4	6.17	5.71	5.48	90.4	120.4	20.53	21.36	21.16	90.4	120.4	-0.13	-0.06	-0.05
170.6	200.6	6.43	5.94	5.61	170.6	200.6	18.09	18.92	22.26	170.6	200.6	-0.18	-0.13	-0.08
250.9	280.9	6.66	6.09	5.74	250.9	280.9	18.04	21.46	24.88	250.9	280.9	-0.20	-0.16	-0.12
331.1	361.1	6.88	6.23	5.73	331.1	361.1	19.81	21.77	24.82	331.1	361.1	-0.27	-0.23	-0.10
411.4	441.4	7.16	6.30	5.76	411.4	441.4	18.73	22.80	26.99	411.4	441.4	-0.43	-0.20	-0.05
491.6	521.6	7.61	6.49	5.77	491.6	521.6	17.53	20.86	27.34	491.6	521.6	-0.66	-0.26	-0.06
571.9	601.9	7.58	6.37	5.82	571.9	601.9	15.91	21.57	27.69	571.9	601.9	-0.55	-0.12	-0.04
652.1	682.1	7.11	6.28	5.93	652.1	682.1	19.07	27.09	26.61	652.1	682.1	-0.15	-0.03	-0.02
732.4	762.4	6.90	6.32	6.08	732.4	762.4	23.50	26.20	28.48	732.4	762.4	0.03	0.00	-0.01
812.6	842.6	6.51	6.16	6.01	812.6	842.6	28.97	28.82	29.65	812.6	842.6	0.13	0.02	0.02
892.9	922.9	6.36	5.99	5.85	892.9	922.9	32.59	29.09	27.70	892.9	922.9	0.12	0.04	0.03
973.1	1003.1	6.32	6.00	5.79	973.1	1003.1	32.04	28.65	27.03	973.1	1003.1	0.12	0.05	0.04
1053.4	1083.4	6.44	6.00	5.86	1053.4	1083.4	23.32	32.03	32.11	1053.4	1083.4	0.11	0.06	0.04
1133.6	1163.6	6.63	6.08	5.90	1133.6	1163.6	30.29	34.12	28.36	1133.6	1163.6	0.10	0.05	0.03
1213.9	1243.9	7.08	6.35	6.15	1213.9	1243.9	30.19	27.92	31.63	1213.9	1243.9	0.10	0.04	0.02
1294.1	1324.1	7.56	6.65	6.35	1294.1	1324.1	26.40	25.86	32.02	1294.1	1324.1	0.07	0.04	0.01
1374.4	1404.4	8.10	6.93	6.59	1374.4	1404.4	28.24	30.18	27.46	1374.4	1404.4	0.02	0.00	0.00
1454.6	1484.6	8.65	7.36	6.87	1454.6	1484.6	26.43	25.97	27.04	1454.6	1484.6	-0.13	-0.04	-0.02
1534.9	1564.9	9.26	7.59	6.98	1534.9	1564.9	19.91	34.10	33.24	1534.9	1564.9	-0.33	-0.05	-0.02
1615.1	1645.1	9.55	7.87	7.16	1615.1	1645.1	22.98	28.42	34.82	1615.1	1645.1	-0.36	-0.12	-0.04
1695.4	1725.4	9.81	8.05	7.26	1695.4	1725.4	22.02	25.18	27.29	1695.4	1725.4	-0.48	-0.13	-0.04
1775.6	1805.6	9.80	7.97	7.30	1775.6	1805.6	22.35	33.70	27.74	1775.6	1805.6	-0.46	-0.11	-0.03
1855.9	1885.9	9.33	7.76	7.23	1855.9	1885.9	23.11	28.86	25.79	1855.9	1885.9	-0.31	-0.05	0.00
1936.1	1966.1	8.94	7.54	7.10	1936.1	1966.1	24.07	26.13	26.20	1936.1	1966.1	-0.25	0.00	0.02
2016.4	2046.4	8.58	7.40	6.99	2016.4	2046.4	25.23	24.92	26.62	2016.4	2046.4	-0.16	0.01	0.03
2096.6	2126.6	8.57	7.40	7.03	2096.6	2126.6	25.32	26.56	25.53	2096.6	2126.6	-0.09	0.03	0.03
2176.9	2206.9	8.56	7.39	7.08	2176.9	2206.9	28.25	24.09	23.85	2176.9	2206.9	-0.01	0.07	0.05
2257.1	2287.1	8.38	7.41	7.13	2257.1	2287.1	27.19	25.77	24.02	2257.1	2287.1	0.08	0.10	0.06
2337.4	2367.4	8.20	7.45	7.15	2337.4	2367.4	24.58	23.76	22.22	2337.4	2367.4	0.14	0.12	0.08
2417.6	2447.6	8.16	7.52	7.22	2417.6	2447.6	24.00	23.92	23.04	2417.6	2447.6	0.21	0.13	0.10
2497.9	2527.9	8.32	7.64	7.37	2497.9	2527.9	24.98	23.26	22.19	2497.9	2527.9	0.27	0.16	0.10
2578.2	2608.2	8.40	7.81	7.54	2578.2	2608.2	22.75	23.44	22.31	2578.2	2608.2	0.39	0.20	0.13
2658.4	2688.4	8.33	7.85	7.59	2658.4	2688.4	21.87	22.75	22.78	2658.4	2688.4	0.48	0.25	0.14
2738.7	2768.7	8.38	8.02	7.78	2738.7	2768.7	22.42	23.57	23.62	2738.7	2768.7	0.50	0.27	0.15
2839.0	2869.0	9.05	8.66	8.38	2839.0	2869.0	21.91	23.00	22.42	2839.0	2869.0	0.52	0.26	0.15
2919.2	2949.2	9.48	9.01	8.76	2919.2	2949.2	21.79	22.45	21.74	2919.2	2949.2	0.34	0.18	0.13
3019.5	3049.5	9.81	9.34	9.02	3019.5	3049.5	21.92	22.81	23.39	3019.5	3049.5	0.30	0.14	0.10
3099.8	3129.8	10.09	9.57	9.22	3099.8	3129.8	21.06	20.92	22.65	3099.8	3129.8	0.27	0.15	0.09
3200.1	3230.1	10.48	10.01	9.65	3200.1	3230.1	23.76	22.41	22.35	3200.1	3230.1	0.28	0.13	0.11

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Frequency Mixer

SYM-25H

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)
		+17			+17			+17
1100.0	100.1	8.06	10.0	20.1	5.78	1100.0	1300.1	8.34
1079.4	120.7	8.06	30.6	40.7	5.61	1080.2	1319.9	8.38
1058.9	141.2	7.99	51.1	61.2	5.74	1060.4	1339.7	8.38
1038.3	161.8	7.94	71.7	81.8	5.72	1040.5	1359.6	8.33
1017.7	182.4	7.96	92.3	102.4	5.71	1020.7	1379.4	8.31
997.2	202.9	7.98	112.8	122.9	5.74	1000.9	1399.2	8.31
976.6	223.5	7.89	133.4	143.5	5.63	981.1	1419.0	8.34
956.0	244.1	7.91	154.0	164.1	5.75	961.3	1438.8	8.28
935.5	264.6	7.87	174.5	184.6	5.80	921.6	1478.5	8.25
914.9	285.2	7.81	195.1	205.2	5.68	901.8	1498.3	8.21
894.3	305.8	7.85	215.7	225.8	5.69	862.2	1537.9	8.15
873.8	326.3	7.77	236.2	246.3	5.72	842.4	1557.7	8.07
832.6	367.5	7.69	277.4	287.5	5.76	802.7	1597.4	8.04
812.1	388.0	7.62	297.9	308.0	5.80	782.9	1617.2	7.98
770.9	429.2	7.52	339.1	349.2	5.77	743.3	1656.8	7.89
750.4	449.7	7.45	359.6	369.7	5.89	723.5	1676.6	7.82
709.2	490.9	7.38	400.8	410.9	5.84	683.8	1716.3	7.71
688.7	511.4	7.23	421.3	431.4	5.91	664.0	1736.1	7.70
647.5	552.6	7.17	462.5	472.6	5.96	624.4	1775.7	7.57
627.0	573.1	7.03	483.0	493.1	5.97	604.5	1795.6	7.51
585.8	614.3	6.89	524.2	534.3	6.04	564.9	1835.2	7.47
565.3	634.8	6.83	544.7	554.8	6.02	545.1	1855.0	7.40
524.2	675.9	6.71	585.8	595.9	6.13	505.5	1894.6	7.34
503.6	696.5	6.67	606.4	616.5	6.07	485.6	1914.5	7.37
462.5	737.6	6.56	647.5	657.6	6.15	446.0	1954.1	7.31
441.9	758.2	6.55	668.1	678.2	6.18	426.2	1973.9	7.28
400.8	799.3	6.43	709.2	719.3	6.24	386.5	2013.6	7.32
380.2	819.9	6.39	729.8	739.9	6.27	366.7	2033.4	7.22
339.1	861.0	6.31	770.9	781.0	6.36	327.1	2073.0	7.20
318.5	881.6	6.27	791.5	801.6	6.35	307.3	2092.8	7.19
277.4	922.7	6.28	832.6	842.7	6.38	267.6	2132.5	7.18
256.8	943.3	6.30	853.2	863.3	6.41	247.8	2152.3	7.19
215.7	984.4	6.31	894.3	904.4	6.42	208.2	2191.9	7.19
195.1	1005.0	6.36	914.9	925.0	6.43	188.4	2211.7	7.21
154.0	1046.1	6.34	956.0	966.1	6.48	148.7	2251.4	7.18
133.4	1066.7	6.37	976.6	986.7	6.50	128.9	2271.2	7.14
92.3	1107.8	6.30	1017.7	1027.8	6.50	89.3	2310.8	7.22
71.7	1128.4	6.30	1038.3	1048.4	6.52	69.5	2330.6	7.24
30.6	1169.5	6.30	1079.4	1089.5	6.57	29.8	2370.3	7.33
10.0	1190.1	6.35	1100.0	1110.1	6.55	10.0	2390.1	7.46

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
10.1	27.49	30.24	33.01	47.21	51.67	57.20
90.4	36.67	39.65	42.72	49.90	56.85	71.55
170.6	38.94	42.00	44.78	53.41	63.25	61.33
250.9	40.98	44.04	45.72	60.78	60.16	55.12
331.1	44.36	46.80	45.55	64.08	54.21	51.15
411.4	50.16	46.23	42.86	53.82	49.99	48.58
491.6	48.59	42.93	40.17	48.45	46.47	45.86
571.9	42.18	39.64	38.06	44.63	44.98	44.37
652.1	38.56	37.27	36.46	42.46	42.70	42.22
732.4	36.28	35.30	34.75	40.45	40.64	40.06
812.6	34.53	33.78	33.21	40.87	40.23	39.01
892.9	32.93	32.29	32.03	41.65	40.19	38.37
973.1	31.95	31.54	31.41	41.39	39.04	37.17
1053.4	31.30	31.10	31.06	39.27	37.11	35.58
1133.6	30.53	30.84	30.86	37.70	35.83	34.31
1213.9	30.07	30.54	30.65	37.07	35.26	33.61
1294.1	29.80	30.39	30.57	36.09	34.79	33.25
1374.4	29.38	30.16	30.34	34.69	33.63	32.31
1454.6	29.15	29.99	30.31	34.17	32.85	31.76
1534.9	28.75	29.65	30.13	34.74	33.04	31.86
1615.1	28.46	29.36	29.94	34.98	33.04	32.02
1695.4	28.32	29.07	29.74	34.88	33.21	32.04
1775.6	28.22	28.83	29.63	34.18	32.66	31.69
1855.9	28.18	28.65	29.49	33.40	32.11	31.48
1936.1	28.27	29.03	29.65	32.69	31.42	30.89
2016.4	28.24	29.38	30.40	32.25	31.27	30.72
2096.6	28.71	29.83	30.80	31.65	31.37	31.29
2176.9	29.51	31.09	31.92	31.00	31.84	32.61
2257.1	30.47	32.40	33.92	30.61	32.41	34.30
2337.4	31.86	34.23	35.94	30.17	32.75	36.10
2417.6	33.26	36.48	38.11	29.92	32.97	38.25
2497.9	35.04	39.52	42.76	30.79	34.82	41.53
2578.2	36.46	41.17	45.58	32.43	38.69	43.71
2658.4	36.49	39.37	41.23	35.89	45.40	40.22
2738.7	34.32	35.57	36.30	44.59	45.25	35.53
2839.0	30.95	31.25	30.99	36.89	34.44	31.23
2919.2	30.28	30.05	29.47	33.61	32.45	30.35
3019.5	30.94	30.95	30.64	36.77	34.74	31.81
3099.8	32.13	32.50	32.41	40.47	36.01	32.29
3200.1	32.73	33.54	33.63	38.75	34.35	31.13

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	39.36	34.69	35.46
90.4	120.4	37.71	37.62	37.65
170.6	200.6	38.31	38.49	38.21
250.9	280.9	39.56	39.54	39.04
331.1	361.1	40.23	40.16	40.47
411.4	441.4	40.62	40.97	42.16
491.6	521.6	41.06	42.44	45.38
571.9	601.9	39.58	42.90	44.76
652.1	682.1	38.04	43.69	46.22
732.4	762.4	38.36	44.05	45.86
812.6	842.6	40.97	44.45	46.88
892.9	922.9	40.32	42.51	44.20
973.1	1003.1	37.57	39.56	41.12
1053.4	1083.4	36.03	37.90	39.26
1133.6	1163.6	34.57	36.51	38.04
1213.9	1243.9	32.97	35.62	36.76
1294.1	1324.1	32.49	35.08	36.80
1374.4	1404.4	32.34	34.32	35.41
1454.6	1484.6	31.06	32.02	32.56
1534.9	1564.9	30.57	31.11	31.54
1615.1	1645.1	30.75	31.14	31.19
1695.4	1725.4	31.15	31.25	31.48
1775.6	1805.6	31.65	31.76	31.88
1855.9	1885.9	32.27	32.48	32.33
1936.1	1966.1	32.81	33.23	33.12
2016.4	2046.4	33.17	33.44	33.58
2096.6	2126.6	33.92	33.85	33.75
2176.9	2206.9	34.42	34.07	33.93
2257.1	2287.1	34.34	33.76	33.00
2337.4	2367.4	33.00	32.37	31.27
2417.6	2447.6	31.15	30.84	30.27
2497.9	2527.9	29.54	29.12	29.71
2578.2	2608.2	27.98	27.67	27.65
2658.4	2688.4	27.86	27.52	27.36
2738.7	2768.7	28.78	28.45	28.17
2839.0	2869.0	29.72	29.20	28.68
2919.2	2949.2	31.39	30.72	29.79
3019.5	3049.5	31.80	32.12	32.01
3099.8	3129.8	32.09	32.26	32.31
3200.1	3230.1	31.85	32.15	32.34

Frequency Mixer

SYM-25H

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	1.49	1.37	1.31
90.4	120.4	1.50	1.33	1.22
170.6	200.6	1.61	1.43	1.33
250.9	280.9	1.74	1.58	1.47
331.1	361.1	1.93	1.75	1.60
411.4	441.4	2.17	1.91	1.73
491.6	521.6	2.42	2.11	1.89
571.9	601.9	2.52	2.18	2.00
652.1	682.1	2.46	2.18	2.06
732.4	762.4	2.40	2.19	2.09
812.6	842.6	2.29	2.12	2.04
892.9	922.9	2.27	2.08	1.99
973.1	1003.1	2.37	2.10	1.97
1053.4	1083.4	2.42	2.10	1.96
1133.6	1163.6	2.42	2.10	1.96
1213.9	1243.9	2.56	2.20	2.04
1294.1	1324.1	2.69	2.35	2.17
1374.4	1404.4	2.83	2.51	2.34
1454.6	1484.6	3.01	2.69	2.53
1534.9	1564.9	3.18	2.77	2.60
1615.1	1645.1	3.17	2.79	2.58
1695.4	1725.4	3.14	2.72	2.51
1775.6	1805.6	2.99	2.57	2.38
1855.9	1885.9	2.81	2.41	2.24
1936.1	1966.1	2.62	2.27	2.10
2016.4	2046.4	2.41	2.11	1.96
2096.6	2126.6	2.26	1.96	1.83
2176.9	2206.9	2.12	1.83	1.69
2257.1	2287.1	1.95	1.73	1.62
2337.4	2367.4	1.79	1.64	1.56
2417.6	2447.6	1.69	1.56	1.50
2497.9	2527.9	1.58	1.47	1.42
2578.2	2608.2	1.44	1.36	1.34
2658.4	2688.4	1.30	1.26	1.28
2738.7	2768.7	1.23	1.25	1.30
2839.0	2869.0	1.23	1.31	1.39
2919.2	2949.2	1.24	1.34	1.43
3019.5	3049.5	1.22	1.32	1.41
3099.8	3129.8	1.25	1.35	1.43
3200.1	3230.1	1.38	1.46	1.54

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+14	+17	+20
10.1	1.27	1.62	2.30
90.4	1.03	1.53	2.23
170.6	1.10	1.55	2.25
250.9	1.15	1.57	2.29
331.1	1.26	1.60	2.30
411.4	1.34	1.60	2.25
491.6	1.36	1.57	2.18
571.9	1.38	1.51	2.11
652.1	1.44	1.49	2.07
732.4	1.51	1.47	2.02
812.6	1.71	1.51	1.97
892.9	1.97	1.59	1.94
973.1	2.20	1.65	1.88
1053.4	2.42	1.69	1.80
1133.6	2.68	1.74	1.71
1213.9	2.94	1.82	1.63
1294.1	3.12	1.87	1.56
1374.4	3.26	1.90	1.46
1454.6	3.45	1.92	1.37
1534.9	3.61	1.94	1.28
1615.1	3.67	1.95	1.22
1695.4	3.64	1.94	1.23
1775.6	3.58	1.95	1.32
1855.9	3.62	2.02	1.47
1936.1	3.74	2.10	1.64
2016.4	3.81	2.17	1.80
2096.6	3.63	2.21	2.00
2176.9	3.30	2.26	2.23
2257.1	3.05	2.31	2.41
2337.4	2.93	2.37	2.57
2417.6	2.82	2.44	2.73
2497.9	2.69	2.54	2.95
2578.2	2.59	2.67	3.20
2658.4	2.52	2.78	3.38
2738.7	2.48	2.85	3.50
2839.0	2.39	2.86	3.50
2919.2	2.26	2.79	3.42
3019.5	2.32	2.96	3.70
3099.8	2.48	3.20	4.00
3200.1	2.74	3.48	4.31

IF (OUT) (MHz)	IF VSWR @LO=2400.1MHz (:1)		
	@LO (dBm)		
	+14	+17	+20
10.0	1.63	1.33	1.18
29.8	1.57	1.26	1.12
49.6	1.49	1.21	1.10
69.5	1.46	1.19	1.11
89.3	1.51	1.23	1.14
109.1	1.53	1.25	1.16
128.9	1.54	1.28	1.21
148.7	1.53	1.30	1.25
188.4	1.56	1.33	1.27
208.2	1.62	1.39	1.34
247.8	1.65	1.45	1.40
267.6	1.64	1.47	1.43
307.3	1.72	1.52	1.47
327.1	1.72	1.54	1.49
366.7	1.69	1.54	1.50
386.5	1.65	1.51	1.48
426.2	1.68	1.54	1.51
446.0	1.65	1.51	1.49
485.6	1.64	1.53	1.52
505.5	1.64	1.51	1.50
545.1	1.59	1.50	1.51
564.9	1.58	1.47	1.48
604.5	1.52	1.43	1.45
624.4	1.51	1.42	1.44
664.0	1.41	1.32	1.37
683.8	1.41	1.32	1.37
723.5	1.32	1.23	1.31
743.3	1.28	1.21	1.32
782.9	1.25	1.14	1.25
802.7	1.20	1.14	1.28
842.4	1.18	1.09	1.25
862.2	1.16	1.09	1.26
901.8	1.17	1.09	1.25
921.6	1.18	1.12	1.27
961.3	1.23	1.17	1.30
981.1	1.27	1.19	1.30
1020.7	1.32	1.28	1.38
1040.5	1.38	1.31	1.39
1080.2	1.47	1.40	1.47
1100.0	1.49	1.41	1.47

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	16	17	23	36	28	39	36	43	35	52
1	-	25	+0	37	14	31	27	47	42	43	52	37
2	85	57	45	56	46	55	50	63	58	62	66	64
3	>100	72	63	81	57	79	52	66	62	84	68	72
4	>100	>93	>93	>93	84	>93	79	92	79	>93	89	89
5	>100	>93	>93	>93	87	>93	82	>93	83	>93	90	>93
6	>100	>93	>93	>93	>93	>93	92	>93	>93	>93	>93	>93
7	>100	>93	>93	>93	>93	>93	>93	>93	91	>93	>93	>93
8	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
9	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
10	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1200.1 MHz; -1.00 dBm.
 LO IN: 1230.01 MHz; +17.00 dBm
 IF OUT: 29.91 MHz; -7.46 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	23	27	38	50	43	63	57	60	57	74
1	-	26	+0	41	15	35	30	49	51	56	54	51
2	69	48	42	54	43	49	48	59	54	63	60	61
3	>100	58	39	63	40	63	36	49	47	62	64	59
4	>100	74	73	62	57	60	55	62	57	69	62	68
5	>100	73	74	86	58	81	53	75	49	65	59	76
6	>100	88	76	86	71	73	68	70	73	71	70	84
7	>100	86	82	86	76	85	66	99	65	85	64	79
8	>100	94	101	>103	85	>103	83	92	79	80	81	76
9	>100	96	101	>103	97	99	91	92	78	90	77	92
10	>100	>103	93	102	>103	100	96	101	85	90	83	86
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1200.1 MHz; 9.00 dBm.
 LO IN: 1230.01 MHz; +17.00 dBm
 IF OUT: 29.91 MHz; 2.56 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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