

# Frequency Mixer

# LMX-123

## 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=+5dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+7	+10	+13			+7	+10	+13			+7	+10	+13
10.1	40.1	7.37	6.76	6.47	10.1	40.1	27.05	22.93	21.59	10.1	40.1	0.43	0.19	0.09
110.4	140.4	7.44	6.87	6.53	110.4	140.4	19.58	20.58	20.15	110.4	140.4	0.34	0.10	0.06
210.7	240.7	7.47	6.90	6.57	210.7	240.7	18.06	18.57	20.72	210.7	240.7	0.33	0.12	0.05
310.9	340.9	7.62	6.98	6.61	310.9	340.9	17.21	18.43	20.93	310.9	340.9	0.26	0.09	0.04
411.2	441.2	7.67	7.01	6.63	411.2	441.2	16.92	19.61	21.16	411.2	441.2	0.27	0.10	0.06
511.5	541.5	7.71	7.02	6.64	511.5	541.5	17.74	19.56	25.08	511.5	541.5	0.31	0.13	0.06
611.8	641.8	7.72	7.04	6.64	611.8	641.8	16.93	19.86	23.78	611.8	641.8	0.26	0.13	0.07
712.1	742.1	7.62	6.97	6.61	712.1	742.1	17.76	20.28	20.89	712.1	742.1	0.32	0.15	0.08
792.3	822.3	7.63	6.98	6.61	792.3	822.3	17.39	19.35	19.81	792.3	822.3	0.32	0.16	0.08
892.6	922.6	7.55	6.94	6.61	892.6	922.6	19.17	22.43	20.08	892.6	922.6	0.38	0.17	0.09
972.8	1002.8	7.53	6.91	6.60	972.8	1002.8	20.60	21.38	19.74	972.8	1002.8	0.36	0.17	0.11
1073.1	1103.1	7.42	6.85	6.54	1073.1	1103.1	20.63	18.31	17.87	1073.1	1103.1	0.39	0.18	0.11
1153.3	1183.3	7.41	6.84	6.54	1153.3	1183.3	18.63	18.05	18.60	1153.3	1183.3	0.37	0.17	0.11
1253.6	1283.6	7.42	6.83	6.55	1253.6	1283.6	18.67	17.71	18.41	1253.6	1283.6	0.40	0.18	0.11
1333.8	1363.8	7.43	6.84	6.57	1333.8	1363.8	19.48	19.05	19.21	1333.8	1363.8	0.42	0.20	0.12
1434.1	1464.1	7.58	6.96	6.68	1434.1	1464.1	25.34	21.81	21.40	1434.1	1464.1	0.42	0.20	0.11
1514.3	1544.3	7.77	7.09	6.79	1514.3	1544.3	25.65	27.57	28.29	1514.3	1544.3	0.39	0.19	0.09
1614.6	1644.6	7.97	7.21	6.88	1614.6	1644.6	19.86	27.91	30.89	1614.6	1644.6	0.38	0.19	0.11
1694.8	1724.8	8.22	7.43	7.03	1694.8	1724.8	17.42	22.99	29.11	1694.8	1724.8	0.29	0.16	0.09
1795.1	1825.1	8.49	7.58	7.12	1795.1	1825.1	16.70	21.94	24.54	1795.1	1825.1	0.19	0.11	0.08
1875.3	1905.3	8.75	7.79	7.28	1875.3	1905.3	15.79	21.08	22.53	1875.3	1905.3	0.20	0.13	0.08
1975.6	2005.6	8.85	7.83	7.30	1975.6	2005.6	16.06	18.60	18.86	1975.6	2005.6	0.18	0.13	0.10
2055.8	2085.8	8.81	7.83	7.30	2055.8	2085.8	15.40	17.11	17.69	2055.8	2085.8	0.18	0.17	0.13
2156.1	2186.1	8.79	7.79	7.26	2156.1	2186.1	14.76	16.01	16.61	2156.1	2186.1	0.24	0.19	0.16
2236.3	2266.3	8.75	7.83	7.30	2236.3	2266.3	13.56	15.25	15.90	2236.3	2266.3	0.28	0.22	0.20
2336.6	2366.6	8.63	7.73	7.25	2336.6	2366.6	12.86	13.73	15.17	2336.6	2366.6	0.38	0.25	0.22
2416.8	2446.8	8.48	7.65	7.21	2416.8	2446.8	12.75	14.14	14.85	2416.8	2446.8	0.42	0.30	0.24
2517.1	2547.1	8.46	7.62	7.19	2517.1	2547.1	12.55	13.50	14.52	2517.1	2547.1	0.50	0.34	0.28
2597.3	2627.3	8.39	7.63	7.21	2597.3	2627.3	12.54	13.67	14.33	2597.3	2627.3	0.52	0.36	0.31
2697.6	2727.6	8.40	7.66	7.29	2697.6	2727.6	11.83	13.04	14.07	2697.6	2727.6	0.57	0.38	0.32
2777.8	2807.8	8.40	7.71	7.35	2777.8	2807.8	11.18	12.80	13.26	2777.8	2807.8	0.62	0.41	0.32
2878.1	2908.1	8.46	7.78	7.46	2878.1	2908.1	11.24	12.64	13.51	2878.1	2908.1	0.58	0.41	0.30
2958.3	2988.3	8.47	7.84	7.54	2958.3	2988.3	11.16	12.76	13.94	2958.3	2988.3	0.66	0.41	0.30
3058.6	3088.6	8.59	8.03	7.76	3058.6	3088.6	11.44	13.20	14.23	3058.6	3088.6	0.59	0.36	0.27
3138.8	3168.8	8.80	8.24	8.01	3138.8	3168.8	12.11	13.81	15.44	3138.8	3168.8	0.54	0.31	0.24
3239.1	3269.1	9.10	8.57	8.34	3239.1	3269.1	12.70	14.22	15.67	3239.1	3269.1	0.49	0.28	0.20
3319.3	3349.3	9.47	8.95	8.72	3319.3	3349.3	13.41	15.24	17.07	3319.3	3349.3	0.38	0.22	0.15
3419.6	3449.6	9.96	9.45	9.19	3419.6	3449.6	15.70	16.18	17.71	3419.6	3449.6	0.31	0.19	0.13
3499.8	3529.8	10.40	9.83	9.50	3499.8	3529.8	17.86	17.45	18.70	3499.8	3529.8	0.26	0.17	0.14
3600.1	3630.1	11.04	10.45	10.01	3600.1	3630.1	17.18	17.26	18.46	3600.1	3630.1	0.20	0.14	0.15



# Frequency Mixer

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## Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1500.1MHz (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)=3000.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+10			+10			+10
1000.0	500.1	7.06	10.0	20.1	6.71	1000.0	2000.1	7.67
979.8	520.3	7.08	30.2	40.3	6.57	979.8	2020.3	7.64
959.6	540.5	7.10	50.4	60.5	6.60	959.6	2040.5	7.69
939.4	560.7	7.05	70.6	80.7	6.64	939.4	2060.7	7.60
919.2	580.9	7.05	90.8	100.9	6.64	919.2	2080.9	7.66
899.0	601.1	7.01	111.0	121.1	6.63	899.0	2101.1	7.63
878.8	621.3	7.02	131.2	141.3	6.59	878.8	2121.3	7.60
858.6	641.5	7.04	151.4	161.5	6.61	858.6	2141.5	7.62
838.4	661.7	7.03	171.6	181.7	6.65	838.4	2161.7	7.61
818.2	681.9	6.97	191.8	201.9	6.67	818.2	2181.9	7.63
798.0	702.1	6.99	212.0	222.1	6.64	798.0	2202.1	7.58
777.8	722.3	6.90	232.2	242.3	6.66	777.8	2222.4	7.57
757.6	742.6	6.96	252.5	262.6	6.69	757.6	2242.6	7.55
737.4	762.8	6.99	272.7	282.8	6.69	737.4	2262.8	7.54
717.1	783.0	6.95	292.9	303.0	6.70	717.1	2283.0	7.54
696.9	803.2	6.91	313.1	323.2	6.72	696.9	2303.2	7.46
676.7	823.4	6.90	333.3	343.4	6.72	676.7	2323.4	7.47
656.5	843.6	6.89	353.5	363.6	6.72	656.5	2343.6	7.46
636.3	863.8	6.91	373.7	383.8	6.77	636.3	2363.8	7.46
616.1	884.0	6.90	393.9	404.0	6.76	616.1	2384.0	7.45
575.7	924.4	6.86	434.3	444.4	6.79	575.7	2424.4	7.43
555.5	944.6	6.90	454.5	464.6	6.78	555.5	2444.6	7.43
515.1	985.0	6.86	494.9	505.0	6.78	515.1	2485.0	7.43
494.9	1005.2	6.87	515.1	525.2	6.75	494.9	2505.2	7.43
454.5	1045.6	6.87	555.5	565.6	6.80	454.5	2545.6	7.46
434.3	1065.8	6.89	575.7	585.8	6.83	434.3	2565.8	7.49
393.9	1106.2	6.86	616.1	626.2	6.80	393.9	2606.2	7.47
373.7	1126.4	6.90	636.3	646.4	6.84	373.7	2626.4	7.51
333.3	1166.8	6.88	676.7	686.8	6.87	333.3	2666.8	7.55
313.1	1187.0	6.92	696.9	707.0	6.82	313.1	2687.0	7.55
272.7	1227.5	6.94	737.4	747.5	6.89	272.7	2727.5	7.56
252.5	1247.7	6.98	757.6	767.7	6.87	252.5	2747.7	7.56
212.0	1288.1	6.96	798.0	808.1	6.89	212.0	2788.1	7.57
191.8	1308.3	6.96	818.2	828.3	6.90	191.8	2808.3	7.56
151.4	1348.7	7.01	858.6	868.7	6.95	151.4	2848.7	7.63
131.2	1368.9	7.01	878.8	888.9	6.94	131.2	2868.9	7.66
90.8	1409.3	7.01	919.2	929.3	6.99	90.8	2909.3	7.69
70.6	1429.5	7.07	939.4	949.5	6.97	70.6	2929.5	7.72
30.2	1469.9	7.00	979.8	989.9	7.00	30.2	2969.9	7.80
10.0	1490.1	7.08	1000.0	1010.1	6.95	10.0	2990.1	7.92

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## Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+7	+10	+13	+7	+10	+13
40.1	32.66	35.30	37.90	37.38	40.83	43.65
140.4	32.47	35.13	37.82	38.82	42.43	45.42
240.7	32.91	35.67	38.38	39.36	42.79	44.95
340.9	33.32	36.22	38.95	39.95	42.98	44.03
441.2	34.12	37.24	40.00	41.00	43.48	43.35
541.5	35.10	38.63	41.41	42.08	43.75	42.54
641.8	36.49	40.92	43.50	43.44	44.05	41.79
742.1	38.14	44.37	45.83	45.52	44.83	41.29
822.3	39.29	49.14	45.99	47.34	44.48	40.35
922.6	40.35	59.91	44.79	49.95	44.39	40.03
1002.8	39.77	53.00	43.28	52.29	44.84	39.70
1103.1	37.93	45.80	42.23	56.19	46.43	40.28
1183.3	36.03	41.65	41.14	51.95	48.12	40.74
1283.6	34.29	38.31	39.47	54.96	47.07	40.70
1363.8	32.70	36.18	38.42	49.88	48.36	41.41
1464.1	31.25	34.42	37.16	46.38	50.77	42.76
1544.3	30.32	33.22	36.03	44.52	51.21	44.21
1644.6	29.21	31.68	34.28	41.98	47.96	45.84
1724.8	28.47	30.65	33.07	40.79	45.62	47.09
1825.1	27.86	29.71	31.86	40.11	43.89	46.32
1905.3	27.50	29.08	30.91	39.69	42.85	45.25
2005.6	27.17	28.66	30.41	39.79	42.75	44.94
2085.8	27.16	28.53	30.31	40.28	43.36	45.94
2186.1	27.25	28.59	30.33	41.35	44.53	48.15
2266.3	27.36	28.67	30.27	42.90	46.76	50.18
2366.6	27.66	28.98	30.63	44.79	51.11	51.69
2446.8	27.98	29.39	31.19	44.31	53.03	51.81
2547.1	28.47	30.08	32.01	44.55	54.27	53.88
2627.3	28.83	30.59	32.59	45.81	57.98	51.20
2727.6	29.35	31.39	33.54	46.96	60.60	49.59
2807.8	29.85	32.14	34.59	47.79	64.36	48.76
2908.1	30.53	33.13	35.76	49.52	60.63	46.54
2988.3	30.95	33.75	36.32	51.61	55.04	44.98
3088.6	31.53	34.63	37.13	52.45	52.52	44.25
3168.8	32.08	35.34	37.89	51.35	51.40	44.25
3269.1	32.72	36.05	38.25	47.52	49.60	43.93
3349.3	33.01	36.25	37.83	45.06	48.16	45.24
3449.6	33.13	36.26	37.92	42.18	44.84	44.18
3529.8	33.18	36.27	38.41	40.43	42.38	41.67
3630.1	33.92	37.11	39.05	37.91	36.52	34.51

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+7	+10	+13
10.1	40.1	31.58	32.12	30.42
110.4	140.4	31.85	32.07	31.98
210.7	240.7	32.77	33.00	33.22
310.9	340.9	33.68	33.98	34.11
411.2	441.2	35.62	35.89	35.93
511.5	541.5	38.28	37.87	37.60
611.8	641.8	43.54	42.00	40.85
712.1	742.1	59.33	50.64	47.79
792.3	822.3	45.96	48.13	51.65
892.6	922.6	39.28	39.91	40.30
972.8	1002.8	36.31	37.02	37.30
1073.1	1103.1	34.33	34.77	34.86
1153.3	1183.3	33.11	33.59	33.96
1253.6	1283.6	32.54	33.03	33.57
1333.8	1363.8	31.70	32.55	33.35
1434.1	1464.1	31.05	32.20	33.04
1514.3	1544.3	30.31	31.66	32.38
1614.6	1644.6	29.39	30.50	31.18
1694.8	1724.8	28.55	29.55	30.15
1795.1	1825.1	28.11	28.99	29.61
1875.3	1905.3	28.89	29.58	30.03
1975.6	2005.6	28.83	29.35	29.65
2055.8	2085.8	29.17	29.54	29.82
2156.1	2186.1	29.97	30.22	30.31
2236.3	2266.3	30.04	29.82	29.81
2336.6	2366.6	29.19	28.99	28.94
2416.8	2446.8	29.05	28.84	28.67
2517.1	2547.1	29.02	28.80	28.73
2597.3	2627.3	28.89	28.56	28.58
2697.6	2727.6	28.50	27.95	27.80
2777.8	2807.8	28.78	28.29	27.94
2878.1	2908.1	29.31	29.00	28.78
2958.3	2988.3	29.55	29.26	29.02
3058.6	3088.6	29.57	29.11	28.65
3138.8	3168.8	29.36	28.68	28.17
3239.1	3269.1	28.45	27.89	27.48
3319.3	3349.3	27.44	26.85	26.39
3419.6	3449.6	27.37	26.74	26.27
3499.8	3529.8	27.44	27.10	26.86
3600.1	3630.1	27.55	27.45	27.35

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## Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+7	+10	+13
10.1	40.1	1.16	1.07	1.09
110.4	140.4	1.16	1.05	1.03
210.7	240.7	1.21	1.09	1.02
310.9	340.9	1.27	1.16	1.08
411.2	441.2	1.33	1.21	1.14
511.5	541.5	1.41	1.28	1.20
611.8	641.8	1.48	1.34	1.26
712.1	742.1	1.53	1.39	1.31
792.3	822.3	1.59	1.44	1.36
892.6	922.6	1.61	1.46	1.37
972.8	1002.8	1.64	1.48	1.40
1073.1	1103.1	1.66	1.49	1.40
1153.3	1183.3	1.69	1.52	1.41
1253.6	1283.6	1.69	1.51	1.41
1333.8	1363.8	1.70	1.51	1.39
1434.1	1464.1	1.70	1.50	1.38
1514.3	1544.3	1.74	1.54	1.43
1614.6	1644.6	1.78	1.58	1.47
1694.8	1724.8	1.83	1.64	1.53
1795.1	1825.1	1.86	1.67	1.56
1875.3	1905.3	1.92	1.74	1.63
1975.6	2005.6	1.92	1.74	1.63
2055.8	2085.8	1.88	1.71	1.59
2156.1	2186.1	1.82	1.65	1.54
2236.3	2266.3	1.76	1.61	1.50
2336.6	2366.6	1.68	1.53	1.43
2416.8	2446.8	1.59	1.45	1.36
2517.1	2547.1	1.49	1.35	1.26
2597.3	2627.3	1.41	1.28	1.20
2697.6	2727.6	1.29	1.18	1.13
2777.8	2807.8	1.21	1.12	1.10
2878.1	2908.1	1.12	1.11	1.16
2958.3	2988.3	1.12	1.20	1.29
3058.6	3088.6	1.25	1.40	1.50
3138.8	3168.8	1.40	1.58	1.72
3239.1	3269.1	1.60	1.81	1.97
3319.3	3349.3	1.76	1.99	2.17
3419.6	3449.6	1.96	2.20	2.38
3499.8	3529.8	2.08	2.31	2.48
3600.1	3630.1	2.24	2.42	2.57

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+7	+10	+13
40.1	1.07	1.56	2.13
140.4	1.06	1.54	2.16
240.7	1.10	1.54	2.15
340.9	1.13	1.53	2.12
441.2	1.20	1.54	2.10
541.5	1.25	1.53	2.07
641.8	1.32	1.54	2.04
742.1	1.40	1.54	2.01
822.3	1.46	1.54	1.97
922.6	1.54	1.54	1.91
1002.8	1.62	1.54	1.86
1103.1	1.71	1.52	1.76
1183.3	1.78	1.50	1.70
1283.6	1.86	1.47	1.59
1363.8	1.91	1.46	1.53
1464.1	1.92	1.43	1.45
1544.3	1.91	1.40	1.41
1644.6	1.88	1.37	1.37
1724.8	1.85	1.35	1.35
1825.1	1.82	1.33	1.34
1905.3	1.81	1.32	1.32
2005.6	1.79	1.29	1.29
2085.8	1.77	1.28	1.27
2186.1	1.74	1.24	1.23
2266.3	1.71	1.22	1.22
2366.6	1.67	1.17	1.21
2446.8	1.62	1.14	1.23
2547.1	1.57	1.10	1.25
2627.3	1.53	1.07	1.29
2727.6	1.49	1.06	1.31
2807.8	1.46	1.05	1.34
2908.1	1.44	1.05	1.34
2988.3	1.43	1.03	1.33
3088.6	1.41	1.01	1.32
3168.8	1.38	1.05	1.34
3269.1	1.30	1.14	1.44
3349.3	1.23	1.21	1.53
3449.6	1.15	1.33	1.68
3529.8	1.14	1.43	1.80
3630.1	1.21	1.54	1.92

IF (OUT) (MHz)	IF VSWR @LO=1500.1MHz (:1)		
	@LO (dBm)		
	+7	+10	+13
10.0	2.02	1.73	1.49
30.2	1.79	1.59	1.41
50.4	1.77	1.53	1.39
70.6	1.78	1.53	1.40
90.8	1.78	1.54	1.41
111.0	1.83	1.58	1.43
131.2	1.85	1.60	1.45
151.4	1.82	1.57	1.42
171.6	1.82	1.57	1.42
191.8	1.85	1.60	1.45
212.0	1.86	1.61	1.46
232.2	1.84	1.59	1.44
252.5	1.83	1.58	1.43
272.7	1.83	1.58	1.43
292.9	1.83	1.58	1.42
313.1	1.84	1.59	1.43
333.3	1.86	1.60	1.44
353.5	1.83	1.58	1.42
373.7	1.83	1.57	1.41
393.9	1.84	1.58	1.41
434.3	1.84	1.57	1.41
454.5	1.84	1.57	1.40
494.9	1.84	1.57	1.40
515.1	1.83	1.56	1.39
555.5	1.83	1.56	1.39
575.7	1.84	1.57	1.39
616.1	1.85	1.57	1.40
636.3	1.83	1.55	1.38
676.7	1.87	1.59	1.41
696.9	1.85	1.58	1.40
737.4	1.83	1.56	1.39
757.6	1.85	1.58	1.40
798.0	1.87	1.59	1.41
818.2	1.86	1.58	1.41
858.6	1.86	1.59	1.42
878.8	1.89	1.62	1.45
919.2	1.85	1.59	1.42
939.4	1.85	1.59	1.43
979.8	1.88	1.62	1.46
1000.0	1.87	1.61	1.45

## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	34	15	27	35	38	63	51	66	79	92
1	-	25	+0	37	13	49	30	47	56	69	61	76
2	>100	43	49	46	47	46	46	56	73	77	62	74
3	>100	62	48	60	62	67	46	81	67	64	74	82
4	>100	75	91	63	72	61	72	58	64	69	75	83
5	>100	>93	83	89	65	81	63	75	61	78	72	85
6	>100	>93	>93	92	>93	>93	>93	83	86	79	90	86
7	>100	>93	>93	>93	>93	>93	>93	>93	89	>93	85	90
8	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	92
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: 1500.1 MHz; 0.00 dBm.  
 LO IN: 1530.01 MHz; +10.00 dBm  
 IF OUT: 29.91 MHz; -7.12 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	29	17	27	36	36	35	46	50	46	73
1	-	28	0	29	17	37	27	48	46	51	54	71
2	81	40	40	45	46	44	39	54	61	57	50	65
3	>100	57	44	74	48	56	50	51	51	59	57	71
4	>100	64	64	65	68	58	68	58	57	59	66	64
5	>100	83	68	72	69	68	67	66	62	67	66	75
6	>100	>97	89	83	82	70	80	74	74	70	73	75
7	>100	>97	89	90	86	81	82	80	87	78	78	78
8	>100	96	>97	91	94	>97	84	80	84	81	82	80
9	>100	>97	>97	>97	>97	>97	>97	90	85	88	88	86
10	>100	>97	>97	>97	>97	>97	>97	>97	91	87	89	90
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 1250.1 MHz; 4.00 dBm.  
 LO IN: 1280.01 MHz; +13.00 dBm  
 IF OUT: 29.91 MHz; -3.1 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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