

Frequency Mixer

SYM-10DHW+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	7.07	6.67	6.50
70.8	100.8	7.01	6.63	6.45
131.5	161.5	7.04	6.66	6.48
192.1	222.1	7.15	6.76	6.54
252.8	282.8	7.22	6.80	6.54
313.5	343.5	7.34	6.83	6.58
374.2	404.2	7.50	6.88	6.63
434.8	464.8	7.52	6.92	6.70
515.7	545.7	7.55	7.03	6.81
576.4	606.4	7.56	7.06	6.86
657.3	687.3	7.63	7.12	6.92
718.0	748.0	7.65	7.20	6.98
798.9	828.9	8.04	7.42	7.13
859.6	889.6	8.24	7.63	7.31
940.5	970.5	8.94	8.13	7.73
1001.2	1031.2	9.39	8.63	8.23
1082.1	1112.1	10.30	9.24	8.71
1142.7	1172.7	10.30	9.34	8.80
1223.6	1253.6	10.10	9.11	8.60
1284.3	1314.3	10.09	9.04	8.50
1365.2	1395.2	10.08	8.94	8.36
1425.9	1455.9	9.86	8.86	8.34
1506.8	1536.8	9.68	8.72	8.19
1567.5	1597.5	9.63	8.69	8.20
1648.4	1678.4	9.45	8.59	8.13
1709.0	1739.0	9.29	8.47	8.09
1789.9	1819.9	9.01	8.37	8.08
1850.6	1880.6	8.93	8.34	8.07
1931.5	1961.5	8.79	8.29	8.10
1992.2	2022.2	8.95	8.40	8.14
2073.1	2103.1	9.09	8.49	8.18
2133.8	2163.8	9.18	8.56	8.25
2214.7	2244.7	9.24	8.67	8.39
2275.4	2305.4	9.28	8.79	8.50
2356.3	2386.3	9.48	8.97	8.65
2416.9	2446.9	9.70	9.19	8.86
2497.8	2527.8	10.08	9.53	9.20
2558.5	2588.5	10.38	9.79	9.43
2639.4	2669.4	10.63	10.04	9.66
2700.1	2730.1	10.78	10.13	9.77

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	29.42	31.10	28.71
70.8	100.8	28.18	27.45	27.46
131.5	161.5	26.39	26.30	29.06
192.1	222.1	25.19	28.37	24.66
252.8	282.8	26.47	24.79	22.90
313.5	343.5	27.44	22.20	24.52
374.2	404.2	24.85	21.37	25.07
434.8	464.8	21.29	22.48	27.85
515.7	545.7	20.19	23.59	27.74
576.4	606.4	20.05	24.62	29.42
657.3	687.3	21.43	25.23	31.72
718.0	748.0	22.92	29.83	31.06
798.9	828.9	22.52	30.83	37.40
859.6	889.6	24.40	29.33	36.73
940.5	970.5	22.00	25.87	28.36
1001.2	1031.2	22.18	24.57	27.80
1082.1	1112.1	20.79	24.91	28.21
1142.7	1172.7	23.87	25.65	29.57
1223.6	1253.6	26.38	26.40	28.68
1284.3	1314.3	26.50	26.96	29.66
1365.2	1395.2	25.58	28.82	27.64
1425.9	1455.9	30.87	26.58	27.98
1506.8	1536.8	27.93	26.98	26.94
1567.5	1597.5	27.46	25.59	24.63
1648.4	1678.4	26.72	24.67	25.01
1709.0	1739.0	26.77	25.53	24.81
1789.9	1819.9	23.69	23.04	23.04
1850.6	1880.6	22.24	22.16	22.56
1931.5	1961.5	20.97	21.02	22.27
1992.2	2022.2	20.85	20.39	20.96
2073.1	2103.1	21.36	20.39	19.69
2133.8	2163.8	21.78	20.93	20.39
2214.7	2244.7	21.39	21.41	22.98
2275.4	2305.4	20.76	21.74	23.52
2356.3	2386.3	20.24	21.35	22.35
2416.9	2446.9	19.72	20.82	22.13
2497.8	2527.8	20.48	21.60	22.98
2558.5	2588.5	21.35	23.03	25.64
2639.4	2669.4	20.88	23.30	25.49
2700.1	2730.1	20.15	22.12	24.79

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+14dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	0.58	0.30	0.20
70.8	100.8	0.61	0.30	0.18
131.5	161.5	0.64	0.33	0.18
192.1	222.1	0.62	0.28	0.19
252.8	282.8	0.62	0.29	0.19
313.5	343.5	0.59	0.35	0.19
374.2	404.2	0.53	0.33	0.17
434.8	464.8	0.51	0.27	0.13
515.7	545.7	0.60	0.25	0.17
576.4	606.4	0.54	0.22	0.16
657.3	687.3	0.52	0.22	0.15
718.0	748.0	0.49	0.22	0.17
798.9	828.9	0.45	0.24	0.21
859.6	889.6	0.32	0.26	0.25
940.5	970.5	0.32	0.33	0.32
1001.2	1031.2	0.21	0.19	0.19
1082.1	1112.1	-0.25	-0.12	-0.02
1142.7	1172.7	-0.35	-0.20	-0.07
1223.6	1253.6	-0.23	-0.13	-0.03
1284.3	1314.3	-0.14	-0.05	0.03
1365.2	1395.2	-0.10	0.02	0.10
1425.9	1455.9	0.11	0.06	0.12
1506.8	1536.8	0.20	0.18	0.21
1567.5	1597.5	0.28	0.20	0.23
1648.4	1678.4	0.45	0.35	0.34
1709.0	1739.0	0.68	0.45	0.37
1789.9	1819.9	0.94	0.58	0.48
1850.6	1880.6	1.06	0.66	0.51
1931.5	1961.5	1.24	0.77	0.58
1992.2	2022.2	1.37	0.87	0.69
2073.1	2103.1	1.39	0.92	0.70
2133.8	2163.8	1.43	0.97	0.73
2214.7	2244.7	1.43	0.97	0.72
2275.4	2305.4	1.55	0.97	0.71
2356.3	2386.3	1.61	1.01	0.73
2416.9	2446.9	1.65	0.98	0.70
2497.8	2527.8	1.67	0.94	0.66
2558.5	2588.5	1.47	0.83	0.60
2639.4	2669.4	1.60	0.85	0.54
2700.1	2730.1	1.64	0.91	0.58

REV. X2

SYM-10DHW+

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IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED • RoHS compliant

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Frequency Mixer

SYM-10DHW+

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)=50.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1000.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
400.0	100.1	7.17	20.0	70.1	6.73	800.0	200.1	8.33
390.3	109.8	7.23	40.0	90.1	6.64	780.0	220.1	8.30
380.5	119.6	7.28	60.0	110.1	6.62	760.0	240.1	8.37
370.8	129.3	7.26	80.0	130.1	6.49	740.0	260.1	8.46
361.0	139.1	7.29	100.0	150.1	6.53	720.0	280.1	8.44
351.3	148.8	7.27	120.0	170.1	6.50	700.0	300.1	8.46
341.5	158.6	7.29	140.0	190.1	6.43	680.0	320.1	8.56
331.8	168.3	7.37	160.0	210.1	6.48	660.0	340.1	8.60
322.1	178.0	7.27	180.0	230.1	6.41	640.0	360.1	8.41
312.3	187.8	7.29	200.0	250.1	6.43	620.0	380.1	8.61
302.6	197.5	7.39	220.0	270.1	6.35	600.0	400.1	8.58
292.8	207.3	7.32	240.0	290.1	6.39	580.0	420.1	8.39
283.1	217.0	7.36	260.0	310.1	6.39	560.0	440.1	8.50
273.3	226.8	7.33	280.0	330.1	6.29	540.0	460.1	8.43
263.6	236.5	7.30	300.0	350.1	6.33	520.0	480.1	8.34
253.8	246.3	7.35	320.0	370.1	6.26	500.0	500.1	7.22
244.1	256.0	7.33	340.0	390.1	6.22	480.0	520.1	8.33
234.4	265.7	7.35	360.0	410.1	6.20	460.0	540.1	8.20
224.6	275.5	7.41	380.0	430.1	6.22	440.0	560.1	8.22
214.9	285.2	7.26	400.0	450.1	6.17	420.0	580.1	8.27
205.1	295.0	7.39	420.0	470.1	6.13	400.0	600.1	8.13
195.4	304.7	7.44	440.0	490.1	6.18	380.0	620.1	8.19
185.6	314.5	7.20	460.0	510.1	6.10	360.0	640.1	8.11
175.9	324.2	7.29	480.0	530.1	6.12	340.0	660.1	8.09
166.2	333.9	7.32	500.0	550.1	6.11	320.0	680.1	8.09
156.4	343.7	7.17	520.0	570.1	6.08	300.0	700.1	8.04
146.7	353.4	7.27	540.0	590.1	6.11	280.0	720.1	8.04
136.9	363.2	7.16	560.0	610.1	6.08	260.0	740.1	7.93
127.2	372.9	7.12	580.0	630.1	6.12	240.0	760.1	7.94
117.4	382.7	7.23	600.0	650.1	6.12	220.0	780.1	7.93
107.7	392.4	7.13	620.0	670.1	6.13	200.0	800.1	7.96
97.9	402.2	7.18	640.0	690.1	6.13	180.0	820.1	8.02
88.2	411.9	7.14	660.0	710.1	6.10	160.0	840.1	7.98
78.5	421.6	7.01	680.0	730.1	6.13	140.0	860.1	8.08
68.7	431.4	7.11	700.0	750.1	6.07	120.0	880.1	8.10
59.0	441.1	7.12	720.0	770.1	6.13	100.0	900.1	8.18
49.2	450.9	6.99	740.0	790.1	6.13	80.0	920.1	8.26
39.5	460.6	7.07	760.0	810.1	6.13	60.0	940.1	8.31
29.7	470.4	7.08	780.0	830.1	6.18	40.0	960.1	8.43
20.0	480.1	7.08	800.0	850.1	6.18	20.0	980.1	8.49

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Frequency Mixer

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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	38.04	43.31	49.01	30.03	32.03	34.27
70.8	54.32	62.85	57.78	37.53	41.51	45.46
131.5	60.36	52.83	50.38	39.86	44.23	45.59
192.1	53.02	48.67	47.65	41.51	43.28	42.04
252.8	49.22	47.12	45.33	42.30	41.40	38.83
313.5	47.91	45.80	44.04	42.26	39.10	36.76
374.2	47.15	45.04	44.10	40.93	36.87	34.98
434.8	46.26	43.32	42.65	38.70	35.33	33.80
515.7	45.80	44.45	44.47	35.98	33.56	32.38
576.4	48.80	47.60	45.55	32.97	31.65	30.78
657.3	45.27	44.20	42.83	29.84	29.05	28.82
718.0	42.08	42.70	42.64	28.71	28.07	27.72
798.9	41.30	44.24	44.22	29.21	28.20	27.60
859.6	42.02	45.11	44.42	29.47	27.95	26.94
940.5	42.84	46.56	44.80	28.56	27.15	26.31
1001.2	40.70	45.47	43.43	28.34	26.61	25.54
1082.1	38.44	41.04	40.71	27.50	26.13	25.23
1142.7	37.09	39.39	39.17	27.25	26.09	25.22
1223.6	36.32	37.62	37.19	26.65	25.97	25.23
1284.3	35.42	36.52	36.13	26.22	25.89	25.33
1365.2	34.52	34.81	34.56	25.62	25.51	25.17
1425.9	33.35	34.13	34.16	24.97	25.37	25.23
1506.8	32.12	32.89	33.51	24.60	25.28	25.44
1567.5	31.15	32.25	32.89	24.24	24.87	25.19
1648.4	29.75	31.39	32.24	23.72	24.18	24.31
1709.0	28.33	30.17	31.52	23.08	23.23	23.30
1789.9	26.49	28.46	30.05	22.03	22.13	22.23
1850.6	25.37	26.71	28.32	21.38	21.33	21.59
1931.5	24.16	25.06	26.12	20.79	20.82	20.93
1992.2	23.53	24.31	25.42	20.30	20.30	20.41
2073.1	22.59	23.61	24.84	19.70	20.01	20.28
2133.8	21.98	23.36	24.63	19.49	20.17	20.60
2214.7	21.51	23.09	24.60	19.39	20.11	20.84
2275.4	21.32	22.91	24.31	19.68	20.47	20.97
2356.3	20.70	22.35	23.72	20.16	21.07	21.66
2416.9	20.34	21.94	23.40	20.87	21.82	22.45
2497.8	20.37	21.88	23.50	21.93	22.77	23.22
2558.5	20.93	22.63	24.61	22.02	22.63	22.69
2639.4	22.43	24.68	26.68	20.90	20.97	20.45
2700.1	23.42	25.40	26.84	20.86	20.63	20.12

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	25.08	25.03	25.28
70.8	100.8	28.44	28.63	28.59
131.5	161.5	29.10	29.13	29.35
192.1	222.1	29.41	29.56	29.22
252.8	282.8	29.91	29.80	29.31
313.5	343.5	30.29	30.01	29.58
374.2	404.2	30.76	30.27	29.78
434.8	464.8	31.58	30.54	30.24
515.7	545.7	33.76	32.68	31.79
576.4	606.4	33.31	33.01	32.89
657.3	687.3	32.71	33.31	33.59
718.0	748.0	33.85	35.20	35.61
798.9	828.9	40.83	37.92	35.38
859.6	889.6	37.48	34.57	32.29
940.5	970.5	33.50	30.42	28.47
1001.2	1031.2	32.70	30.20	28.64
1082.1	1112.1	34.86	34.00	32.22
1142.7	1172.7	36.10	37.65	36.31
1223.6	1253.6	32.43	35.63	37.04
1284.3	1314.3	28.97	30.76	31.49
1365.2	1395.2	25.57	26.59	26.89
1425.9	1455.9	24.64	25.23	25.41
1506.8	1536.8	24.06	24.08	24.43
1567.5	1597.5	23.76	23.42	23.47
1648.4	1678.4	23.09	22.90	22.68
1709.0	1739.0	22.71	22.12	21.84
1789.9	1819.9	22.27	21.43	21.08
1850.6	1880.6	22.19	20.81	19.97
1931.5	1961.5	21.41	19.89	18.98
1992.2	2022.2	21.32	20.11	19.25
2073.1	2103.1	20.90	20.39	19.94
2133.8	2163.8	20.83	20.69	20.66
2214.7	2244.7	21.09	21.55	22.24
2275.4	2305.4	21.56	22.44	23.35
2356.3	2386.3	22.25	23.08	24.02
2416.9	2446.9	22.92	23.40	24.11
2497.8	2527.8	24.73	24.83	24.99
2558.5	2588.5	26.11	25.74	25.40
2639.4	2669.4	26.67	25.93	25.43
2700.1	2730.1	26.90	26.00	25.53

Frequency Mixer

SYM-10DHW+

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)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
10.1	40.1	1.57	1.42	1.32	10.1	1.20	1.60	2.31	20.0	1.20	1.16	1.27
70.8	100.8	1.64	1.47	1.37	70.8	1.03	1.56	2.28	40.0	1.13	1.15	1.32
131.5	161.5	1.63	1.48	1.38	131.5	1.06	1.61	2.40	60.0	1.15	1.10	1.27
192.1	222.1	1.64	1.49	1.38	192.1	1.09	1.57	2.29	80.0	1.10	1.11	1.29
252.8	282.8	1.60	1.44	1.33	252.8	1.12	1.50	2.18	100.0	1.12	1.11	1.28
313.5	343.5	1.58	1.40	1.31	313.5	1.13	1.51	2.16	120.0	1.11	1.13	1.29
374.2	404.2	1.57	1.38	1.30	374.2	1.13	1.51	2.17	140.0	1.12	1.11	1.27
434.8	464.8	1.52	1.36	1.30	434.8	1.15	1.42	2.01	160.0	1.13	1.11	1.27
515.7	545.7	1.49	1.35	1.29	515.7	1.26	1.35	1.93	180.0	1.12	1.13	1.29
576.4	606.4	1.44	1.34	1.29	576.4	1.30	1.27	1.82	200.0	1.14	1.13	1.27
657.3	687.3	1.42	1.33	1.28	657.3	1.37	1.24	1.75	220.0	1.12	1.13	1.27
718.0	748.0	1.43	1.35	1.30	718.0	1.45	1.21	1.66	240.0	1.12	1.14	1.30
798.9	828.9	1.51	1.40	1.34	798.9	1.53	1.18	1.59	260.0	1.13	1.16	1.30
859.6	889.6	1.52	1.43	1.37	859.6	1.58	1.15	1.51	280.0	1.15	1.15	1.27
940.5	970.5	1.60	1.51	1.47	940.5	1.59	1.10	1.45	300.0	1.13	1.16	1.28
1001.2	1031.2	1.69	1.63	1.60	1001.2	1.74	1.05	1.42	320.0	1.14	1.19	1.31
1082.1	1112.1	1.89	1.82	1.78	1082.1	1.65	1.05	1.36	340.0	1.14	1.17	1.29
1142.7	1172.7	2.00	1.93	1.88	1142.7	1.81	1.07	1.41	360.0	1.12	1.16	1.28
1223.6	1253.6	2.06	1.98	1.92	1223.6	1.67	1.12	1.42	380.0	1.13	1.18	1.30
1284.3	1314.3	2.10	2.00	1.93	1284.3	1.77	1.18	1.52	400.0	1.16	1.18	1.28
1365.2	1395.2	2.20	2.07	1.99	1365.2	1.64	1.26	1.57	420.0	1.17	1.17	1.26
1425.9	1455.9	2.25	2.12	2.02	1425.9	1.76	1.33	1.64	440.0	1.14	1.19	1.29
1506.8	1536.8	2.33	2.17	2.05	1506.8	1.67	1.44	1.79	460.0	1.15	1.20	1.31
1567.5	1597.5	2.33	2.15	2.03	1567.5	1.73	1.51	1.85	480.0	1.17	1.18	1.26
1648.4	1678.4	2.27	2.10	1.98	1648.4	1.73	1.66	2.04	500.0	1.16	1.16	1.24
1709.0	1739.0	2.22	2.05	1.94	1709.0	1.78	1.72	2.07	520.0	1.18	1.19	1.27
1789.9	1819.9	2.17	2.01	1.90	1789.9	1.75	1.82	2.21	540.0	1.20	1.20	1.27
1850.6	1880.6	2.12	1.94	1.81	1850.6	1.71	1.82	2.21	560.0	1.18	1.16	1.24
1931.5	1961.5	1.99	1.81	1.69	1931.5	1.67	1.89	2.29	580.0	1.17	1.16	1.24
1992.2	2022.2	1.92	1.74	1.62	1992.2	1.68	1.95	2.37	600.0	1.19	1.17	1.24
2073.1	2103.1	1.78	1.63	1.52	2073.1	1.68	1.98	2.40	620.0	1.22	1.15	1.20
2133.8	2163.8	1.71	1.58	1.48	2133.8	1.69	2.03	2.42	640.0	1.20	1.14	1.19
2214.7	2244.7	1.61	1.52	1.44	2214.7	1.69	2.03	2.45	660.0	1.20	1.16	1.21
2275.4	2305.4	1.51	1.45	1.40	2275.4	1.75	2.13	2.53	680.0	1.22	1.15	1.19
2356.3	2386.3	1.38	1.35	1.34	2356.3	1.74	2.12	2.50	700.0	1.22	1.12	1.15
2416.9	2446.9	1.30	1.29	1.30	2416.9	1.76	2.15	2.51	720.0	1.21	1.12	1.17
2497.8	2527.8	1.26	1.26	1.29	2497.8	1.77	2.11	2.44	740.0	1.25	1.16	1.18
2558.5	2588.5	1.24	1.27	1.31	2558.5	1.74	2.06	2.37	760.0	1.26	1.15	1.15
2639.4	2669.4	1.23	1.28	1.34	2639.4	1.73	2.08	2.37	780.0	1.23	1.12	1.14
2700.1	2730.1	1.23	1.31	1.38	2700.1	1.84	2.20	2.50	800.0	1.24	1.13	1.15

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	8	25	12	26	20	26	31	34	36	44
1	-	26	+0	42	13	32	29	39	22	46	34	45
2	98	55	52	65	54	60	49	67	51	55	66	57
3	>100	73	55	68	54	68	54	67	59	70	53	69
4	>100	85	91	73	78	73	76	76	76	80	75	78
5	>100	>92	91	88	88	82	80	>92	87	84	90	88
6	>100	>92	92	89	>92	83	82	75	89	>92	>92	90
7	>100	>92	88	>92	>92	80	84	71	76	87	>92	>92
8	>100	>92	87	86	89	91	85	84	80	74	>92	>92
9	>100	91	>92	>92	>92	89	>92	89	80	79	73	78
10	>100	87	87	>92	>92	87	87	>92	>92	>92	83	82
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 520.1 MHz; -1.00 dBm.
LO IN: 550.01 MHz; +17.00 dBm
IF OUT: 29.91 MHz; -8.15 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	19	35	22	38	32	37	40	47	48	69
1	-	26	+0	40	13	37	30	45	28	48	41	52
2	84	46	44	53	48	54	42	54	48	54	50	57
3	>100	48	39	57	36	63	38	48	41	57	39	82
4	>100	74	58	63	63	65	62	63	62	70	61	64
5	>100	70	59	80	52	74	53	79	53	66	63	68
6	>100	75	67	98	73	73	74	71	70	72	67	77
7	>100	82	78	86	84	73	87	76	76	79	81	70
8	>100	89	89	81	84	92	82	82	81	81	79	80
9	>100	94	87	90	82	83	99	82	81	84	78	81
10	>100	96	90	96	91	88	89	>102	96	94	95	88
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 520.1 MHz; 9.00 dBm.
LO IN: 550.01 MHz; +17.00 dBm
IF OUT: 29.91 MHz; 1.77 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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