

Frequency Mixer

SYM-1020MH

Typical Performance Data

RF (MHz)	LO (MHz)	CONVERSION LOSS (dB)			LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
		@LO (dBm)				@LO (dBm)			@LO (dBm)		
		+10	+13	+16		+10	+13	+16	+10	+13	+16
1000.0	1030.0	5.12	4.92	4.82	1030.0	44.8	46.5	50.8	38.1	33.5	31.3
1050.0	1080.0	4.94	4.84	4.74	1080.0	48.8	50.1	51.5	36.3	33.1	31.3
1100.0	1130.0	5.12	4.92	4.72	1130.0	49.1	54.6	62.5	34.1	31.5	30.0
1150.0	1180.0	5.12	4.92	4.82	1180.0	46.7	51.1	56.4	35.5	32.6	30.5
1200.0	1230.0	5.18	4.98	4.88	1230.0	45.7	50.5	52.3	35.3	33.3	31.2
1250.0	1280.0	5.31	5.11	5.01	1280.0	44.1	48.6	49.2	34.6	33.1	31.1
1300.0	1330.0	5.40	5.20	5.10	1330.0	42.8	46.4	46.5	33.8	32.6	31.2
1350.0	1380.0	5.58	5.38	5.38	1380.0	42.1	44.9	45.5	33.3	31.7	30.0
1400.0	1430.0	5.83	5.63	5.63	1430.0	41.3	44.3	44.1	33.0	31.4	29.7
1450.0	1480.0	5.97	5.87	5.87	1480.0	40.8	44.5	44.7	32.9	31.0	29.1
1500.0	1530.0	6.16	6.06	6.16	1530.0	41.0	46.5	47.8	33.3	31.2	29.0
1550.0	1580.0	6.09	6.19	6.39	1580.0	41.6	48.7	64.6	33.9	31.1	28.9
1600.0	1630.0	6.14	6.14	6.24	1630.0	40.0	42.7	44.7	34.8	31.4	29.3
1650.0	1680.0	6.04	5.84	5.74	1680.0	37.8	40.3	44.1	36.0	32.5	30.5
1700.0	1730.0	6.36	5.76	5.56	1730.0	39.3	43.6	48.5	36.5	33.6	31.7
1750.0	1780.0	7.04	6.04	5.64	1780.0	41.6	48.8	54.7	37.2	34.9	33.3
1800.0	1830.0	7.40	6.60	6.00	1830.0	40.8	48.8	59.1	37.6	35.8	34.6
1850.0	1880.0	7.63	6.93	6.43	1880.0	39.9	45.5	52.3	38.3	36.8	35.8
1900.0	1930.0	7.83	7.13	6.73	1930.0	39.1	41.2	42.9	38.9	37.6	36.7
2000.0	2030.0	7.88	7.38	7.08	2030.0	38.0	38.4	37.8	39.5	38.6	37.9



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RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)		
	@LO (dBm)			@LO (dBm)				@LO (dBm)		
	+10	+13	+16	+10	+13	+16		+10	+13	+16
1030.0	2.25	2.12	2.08	2.61	3.16	4.22	10.0	2.06	1.71	1.49
1080.0	1.99	1.91	1.87	2.80	3.11	4.03	20.0	2.01	1.69	1.48
1130.0	1.77	1.76	1.76	2.92	3.16	3.86	30.0	2.03	1.70	1.48
1180.0	1.63	1.67	1.75	2.96	3.01	3.71	50.0	1.99	1.68	1.47
1230.0	1.54	1.66	1.76	3.06	3.06	3.64	70.0	2.03	1.70	1.48
1280.0	1.59	1.78	1.92	3.16	3.01	3.64	100.0	2.01	1.69	1.48
1330.0	1.70	2.01	2.16	3.44	3.11	3.64	159.0	2.04	1.71	1.48
1380.0	1.89	2.27	2.49	3.38	3.16	3.57	200.0	1.97	1.67	1.45
1430.0	2.06	2.52	2.80	3.57	3.21	3.64	233.5	1.99	1.65	1.44
1480.0	2.32	2.80	3.11	3.44	3.11	3.50	300.0	1.91	1.58	1.38
1530.0	2.40	3.01	3.38	3.79	3.21	3.50	382.5	1.85	1.52	1.32
1580.0	2.43	3.06	3.44	3.79	3.11	3.44	400.0	1.84	1.51	1.32
1630.0	2.12	2.55	2.80	3.86	3.21	3.50	457.0	1.81	1.48	1.29
1680.0	1.51	1.71	1.89	3.79	3.06	3.26	500.0	1.78	1.46	1.26
1730.0	1.44	1.47	1.58	3.64	3.01	3.32	531.5	1.75	1.43	1.24
1780.0	2.14	1.97	1.91	3.44	2.80	3.01	600.0	1.63	1.34	1.19
1830.0	2.96	2.68	2.52	3.16	2.55	2.65	606.0	1.60	1.32	1.18
1880.0	3.44	3.16	3.01	2.96	2.37	2.43	680.5	1.44	1.27	1.27
1930.0	3.64	3.50	3.32	2.68	2.12	2.12	700.0	1.43	1.30	1.34
2030.0	3.86	3.64	3.57	2.46	1.84	1.88				