

Frequency Mixer

SYM-ED9670/1

Typical Performance Data

RF (MHz)	LO (MHz)	CONVERSION LOSS (dB)			LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			LO (MHz)	RF (MHz)	IP-3 Input (dBm)
		@LO (dBm)				@LO (dBm)			@LO (dBm)					@LO (dBm)
		+14	+17	+20		+14	+17	+20	+14	+17	+20			+17
40.0	490.0	8.71	8.45	8.32	490.0	35.0	36.8	38.0	40.6	37.4	35.6	1450.0	1000.0	22.2
50.0	500.0	7.84	7.59	7.47	500.0	35.3	37.1	38.3	40.4	37.3	35.5	1495.0	1045.0	21.9
60.0	510.0	7.32	7.09	6.97	510.0	35.4	37.2	38.4	40.6	37.4	35.6	1540.0	1090.0	22.2
70.0	520.0	6.95	6.72	6.61	520.0	35.7	37.5	38.7	40.4	37.3	35.6	1585.0	1135.0	22.0
80.0	530.0	6.74	6.52	6.41	530.0	36.1	37.7	38.8	40.6	37.4	35.6	1630.0	1180.0	22.1
90.0	540.0	6.61	6.37	6.26	540.0	36.2	37.8	38.9	40.8	37.4	35.6	1675.0	1225.0	22.6
100.0	550.0	6.47	6.25	6.14	550.0	36.4	37.9	38.9	40.7	37.3	35.3	1720.0	1270.0	22.5
300.0	750.0	5.72	5.53	5.45	750.0	44.7	44.1	43.4	40.4	36.3	34.1	1765.0	1315.0	23.3
400.0	850.0	5.85	5.50	5.33	850.0	47.7	46.7	45.4	41.6	36.7	34.3	1810.0	1360.0	22.6
500.0	950.0	6.08	5.66	5.41	950.0	51.0	48.5	46.9	43.8	37.8	34.9	1900.0	1450.0	22.8
600.0	1050.0	6.09	5.75	5.61	1050.0	69.0	57.5	52.6	46.9	39.4	36.4			
700.0	1150.0	6.14	6.00	5.93	1150.0	52.1	58.5	71.6	51.7	42.1	38.5			
800.0	1250.0	6.18	6.06	6.01	1250.0	50.8	55.1	61.1	55.2	46.6	42.0			
900.0	1350.0	6.24	6.08	6.13	1350.0	50.2	52.0	53.4	46.0	60.1	47.6			
1000.0	1450.0	6.09	5.98	5.94	1450.0	48.5	49.6	49.4	46.0	67.0	51.1			
1062.5	1512.5	5.98	5.88	5.86	1512.5	48.3	48.9	48.3	46.0	56.6	52.1			
1125.0	1575.0	6.00	5.89	5.87	1575.0	48.7	49.1	48.5	45.6	51.6	50.9			
1187.5	1637.5	5.97	5.85	5.83	1637.5	49.4	49.3	48.1	45.0	48.9	48.3			
1250.0	1700.0	5.88	5.76	5.74	1700.0	50.3	49.4	47.6	43.8	46.5	46.6			
1312.5	1762.5	5.90	5.78	5.75	1762.5	51.1	50.2	48.6	42.4	45.0	45.8			
1375.0	1825.0	5.91	5.78	5.77	1825.0	50.3	49.4	47.9	42.0	44.0	44.5			
1437.5	1887.5	5.90	5.79	5.80	1887.5	49.4	49.1	47.9	42.1	43.5	43.7			
1500.0	1950.0	6.10	5.97	5.97	1950.0	48.9	49.3	49.1	42.4	43.6	43.7			
1562.5	2012.5	6.33	6.18	6.18	2012.5	48.2	48.9	49.2	42.6	43.1	42.9			
1625.0	2075.0	6.61	6.41	6.37	2075.0	47.1	48.0	48.3	43.0	43.0	42.5			
1687.5	2137.5	6.96	6.72	6.63	2137.5	46.3	47.4	47.6	43.6	43.1	42.6			
1750.0	2200.0	7.36	7.08	6.96	2200.0	45.2	45.8	46.0	43.4	42.5	41.7			
1812.5	2262.5	7.75	7.44	7.28	2262.5	44.3	44.3	44.1	43.1	42.0	41.2			
1875.0	2325.0	8.21	7.84	7.63	2325.0	43.7	43.2	42.9	41.9	41.3	40.6			
1937.5	2387.5	8.52	8.11	7.87	2387.5	43.3	42.6	42.2	39.4	39.0	38.6			
2000.0	2450.0	8.79	8.32	8.03	2450.0	45.5	44.0	43.2	37.8	37.5	37.1			
2100.0	2550.0	9.10	8.56	8.25	2550.0	52.9	48.7	46.5	35.5	35.0	34.5			

Frequency Mixer

SYM-ED9670/1

Typical Performance Data

RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)		
	@LO (dBm)			@LO (dBm)				@LO (dBm)		
	+14	+17	+20	+14	+17	+20		+14	+17	+20
490.0	5.24	5.09	4.98	1.44	1.93	2.55	7.0	1.13	1.30	1.44
500.0	4.04	3.90	3.82	1.46	1.97	2.65	10.0	1.13	1.30	1.44
510.0	3.31	3.20	3.12	1.46	1.97	2.65	20.0	1.13	1.31	1.45
520.0	2.82	2.73	2.68	1.46	1.93	2.55	30.0	1.13	1.31	1.45
530.0	2.50	2.42	2.37	1.42	1.85	2.37	40.0	1.12	1.30	1.43
540.0	2.29	2.21	2.16	1.40	1.77	2.22	50.0	1.13	1.30	1.43
550.0	2.13	2.06	2.01	1.38	1.72	2.15	60.0	1.13	1.30	1.43
750.0	1.45	1.37	1.31	1.36	1.51	1.93	80.0	1.15	1.32	1.45
850.0	1.60	1.48	1.41	1.40	1.43	1.82	90.0	1.15	1.31	1.44
950.0	1.86	1.71	1.61	1.30	1.25	1.63	100.0	1.15	1.31	1.44
1050.0	1.99	1.85	1.76	1.30	1.16	1.53	140.0	1.19	1.34	1.47
1150.0	2.05	1.96	1.90	1.39	1.26	1.62	180.0	1.24	1.39	1.52
1250.0	2.17	2.08	2.02	1.39	1.44	1.85	220.0	1.27	1.41	1.53
1350.0	2.27	2.18	2.12	1.43	1.62	2.08	260.0	1.30	1.43	1.55
1450.0	2.36	2.26	2.19	1.46	1.78	2.25	300.0	1.34	1.47	1.58
1512.5	2.34	2.25	2.18	1.52	2.01	2.71	340.0	1.38	1.51	1.62
1575.0	2.35	2.25	2.18	1.54	2.11	2.79	380.0	1.43	1.56	1.68
1637.5	2.39	2.26	2.18	1.51	1.99	2.52	420.0	1.45	1.57	1.68
1700.0	2.34	2.21	2.12	1.57	2.09	2.65	460.0	1.47	1.60	1.70
1762.5	2.27	2.14	2.05	1.69	2.30	2.98	500.0	1.50	1.62	1.73
1825.0	2.21	2.07	1.97	1.73	2.32	2.95	530.0	1.55	1.69	1.80
1887.5	2.15	2.00	1.89	1.79	2.35	2.96	560.0	1.53	1.65	1.76
1950.0	2.13	1.97	1.85	1.97	2.62	3.36	590.0	1.59	1.73	1.85
2012.5	2.14	1.97	1.84	2.11	2.78	3.55	620.0	1.58	1.72	1.84
2075.0	2.25	2.07	1.94	2.19	2.85	3.61	650.0	1.60	1.75	1.87
2137.5	2.35	2.19	2.05	2.36	3.03	3.82	680.0	1.61	1.77	1.89
2200.0	2.47	2.31	2.18	2.40	2.98	3.63	710.0	1.62	1.78	1.90
2262.5	2.64	2.47	2.34	2.39	2.85	3.40	740.0	1.63	1.79	1.92
2325.0	2.78	2.62	2.49	2.58	3.04	3.67	770.0	1.64	1.81	1.93
2387.5	2.84	2.68	2.56	2.70	3.07	3.63	800.0	1.64	1.81	1.93
2450.0	2.96	2.79	2.65	2.68	2.85	3.22	830.0	1.65	1.81	1.94
2550.0	3.01	2.83	2.69	3.26	3.17	3.42	860.0	1.65	1.82	1.95