

Frequency Mixer

SYM-ED9698/1

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)
		+10	+13	+16		+10	+13	+16	+10	+13	+16			+13
0.2	30.2	7.94	7.39	7.09	30.2	45.4	49.4	52.9	46.1	51.0	56.3	129.3	109.3	24.5
0.4	30.4	7.41	6.91	6.64	30.4	45.3	49.3	53.0	46.1	50.9	56.3	129.3	111.3	24.5
0.6	30.6	7.22	6.74	6.47	30.6	45.3	49.3	52.9	46.1	51.0	56.2	129.3	113.3	24.6
1.0	31.0	6.97	6.50	6.26	31.0	45.4	49.3	52.9	46.1	51.0	56.3	129.3	115.3	24.7
1.5	31.5	6.82	6.37	6.12	31.5	45.3	49.4	53.0	46.1	51.0	56.2	129.3	117.3	24.7
2.0	32.0	6.73	6.30	6.06	32.0	45.4	49.3	53.0	46.1	50.9	56.2	129.3	119.3	24.6
3.0	33.0	6.63	6.19	5.97	33.0	45.3	49.3	52.9	46.1	51.0	56.2	129.3	120.3	24.7
5.0	35.0	6.56	6.14	5.91	35.0	45.3	49.4	53.0	46.1	51.0	56.2	129.3	122.3	24.7
7.0	37.0	6.52	6.10	5.89	37.0	45.4	49.5	53.0	46.1	51.0	56.3	129.3	124.3	24.6
25.0	55.0	6.49	6.08	5.86	55.0	45.4	49.5	52.8	46.3	51.1	56.0	129.3	128.3	23.6
50.0	80.0	6.53	6.09	5.86	80.0	45.5	49.5	52.5	46.4	51.2	55.5	129.3	130.3	24.5
100.0	130.0	6.54	6.09	5.85	130.0	46.1	50.0	52.1	47.3	52.2	54.8	129.3	133.3	24.6
200.0	230.0	6.40	6.05	5.91	230.0	47.6	50.1	49.4	51.1	54.0	52.3	129.3	136.3	24.4
300.0	330.0	6.41	6.11	5.97	330.0	49.6	49.0	46.6	57.2	52.7	49.6	129.3	139.3	24.3
400.0	430.0	6.49	6.19	6.06	430.0	50.8	47.8	45.4	56.9	50.9	48.5	129.3	142.3	24.3
500.0	530.0	6.65	6.33	6.17	530.0	50.5	45.7	43.2	51.3	47.7	46.1	129.3	145.3	24.0
600.0	630.0	6.62	6.30	6.17	630.0	48.1	43.3	41.0	52.6	48.4	46.1	129.3	148.3	24.0
700.0	730.0	6.92	6.43	6.24	730.0	49.3	44.4	42.0	50.8	51.8	49.4	129.3	151.3	24.0
800.0	830.0	7.06	6.58	6.31	830.0	51.0	55.9	67.4	41.7	40.9	40.3	129.3	154.3	24.0
900.0	930.0	7.42	6.78	6.40	930.0	61.1	54.2	50.3	41.6	43.0	43.7	129.3	160.3	24.4
1000.0	1030.0	7.21	6.68	6.41	1030.0	65.1	57.8	52.9	49.2	47.5	45.3			
1050.0	1080.0	7.15	6.73	6.49	1080.0	61.1	56.5	52.7	46.4	45.7	44.6			
1100.0	1130.0	7.20	6.80	6.56	1130.0	56.9	53.8	51.1	42.9	42.9	42.7			
1150.0	1180.0	7.36	6.97	6.73	1180.0	54.8	53.3	51.3	41.0	41.6	41.9			
1200.0	1230.0	7.66	7.22	6.95	1230.0	52.2	51.9	50.8	39.6	40.3	40.9			
1250.0	1280.0	7.85	7.37	7.07	1280.0	49.6	49.7	49.2	38.3	39.1	39.7			
1300.0	1330.0	8.32	7.71	7.34	1330.0	47.8	48.5	48.8	37.7	38.7	39.5			
1325.0	1355.0	8.46	7.79	7.41	1355.0	46.6	47.1	47.4	37.1	37.9	38.7			
1350.0	1380.0	8.72	7.99	7.57	1380.0	45.7	46.4	46.7	36.6	37.5	38.3			
1375.0	1405.0	8.91	8.13	7.65	1405.0	45.1	46.0	46.4	36.6	37.5	38.3			
1400.0	1430.0	9.33	8.43	7.91	1430.0	44.2	45.0	45.4	36.2	37.1	37.8			
1425.0	1455.0	9.51	8.56	7.99	1455.0	43.2	44.1	44.6	35.9	36.7	37.5			
1450.0	1480.0	9.82	8.79	8.18	1480.0	42.7	43.7	44.4	36.2	37.1	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
30.2	1.28	1.15	1.13	1.12	1.45	2.12	1.0	1.32	1.25	1.26
30.4	1.31	1.18	1.15	1.12	1.45	2.12	1.3	1.29	1.21	1.22
30.6	1.32	1.19	1.17	1.12	1.45	2.13	1.5	1.28	1.18	1.19
31.0	1.33	1.20	1.17	1.10	1.45	2.12	2.0	1.26	1.15	1.14
31.5	1.34	1.21	1.18	1.11	1.45	2.12	2.5	1.25	1.12	1.12
32.0	1.34	1.22	1.19	1.10	1.45	2.12	3.0	1.24	1.11	1.10
33.0	1.35	1.22	1.19	1.11	1.45	2.12	3.5	1.24	1.10	1.09
35.0	1.35	1.22	1.19	1.12	1.45	2.11	4.0	1.24	1.09	1.08
37.0	1.35	1.23	1.20	1.12	1.44	2.11	4.5	1.24	1.09	1.07
60.0	1.35	1.23	1.20	1.11	1.43	2.12	5.5	1.24	1.08	1.06
80.0	1.36	1.23	1.20	1.11	1.41	2.08	6.0	1.24	1.08	1.06
130.0	1.36	1.23	1.20	1.15	1.40	2.06	6.5	1.24	1.08	1.06
230.0	1.36	1.24	1.21	1.26	1.34	1.99	7.0	1.24	1.08	1.05
330.0	1.36	1.24	1.21	1.32	1.24	1.79	7.5	1.24	1.08	1.05
430.0	1.36	1.24	1.21	1.36	1.20	1.63	8.0	1.24	1.08	1.05
530.0	1.36	1.24	1.21	1.44	1.37	1.74	8.5	1.24	1.08	1.05
630.0	1.37	1.24	1.21	1.51	1.55	1.97	9.0	1.24	1.08	1.04
730.0	1.37	1.25	1.22	1.57	1.78	2.25	9.5	1.24	1.08	1.04
830.0	1.37	1.25	1.22	1.94	2.24	2.70	10.0	1.25	1.08	1.04
930.0	1.37	1.25	1.22	2.60	3.05	3.59	10.5	1.25	1.08	1.04
1030.0	1.37	1.25	1.22	3.23	4.00	4.92	11.0	1.25	1.08	1.04
1080.0	1.37	1.25	1.22	2.69	3.23	3.89	11.5	1.25	1.08	1.04
1130.0	1.37	1.26	1.23	3.50	4.85	6.46	12.0	1.25	1.08	1.04
1180.0	1.37	1.26	1.23	3.37	4.52	5.82	12.5	1.25	1.08	1.04
1230.0	1.38	1.26	1.23	3.66	5.01	6.53	13.0	1.25	1.08	1.04
1280.0	1.38	1.26	1.23	5.06	7.69	11.28	13.5	1.25	1.08	1.04
1330.0	1.38	1.26	1.23	4.00	5.07	6.14	14.0	1.25	1.08	1.04
1355.0	1.38	1.26	1.23	5.16	6.99	9.35	14.5	1.25	1.08	1.04
1380.0	1.38	1.27	1.24	6.65	9.25	12.61	15.0	1.25	1.08	1.03
1405.0	1.38	1.27	1.24	4.89	5.94	6.98	15.5	1.25	1.08	1.04
1430.0	1.39	1.27	1.24	4.88	5.84	6.96	16.0	1.25	1.08	1.03
1455.0	1.39	1.27	1.24	6.80	8.41	10.34	16.5	1.25	1.08	1.03
1480.0	1.39	1.28	1.25	6.02	6.90	7.67	17.0	1.25	1.08	1.03