

Frequency Mixer

SYM-ED7662/1

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)		
		+20	+23	+26		+20	+23	+26	+20	+23	+26
0.2	30.2	8.60	8.10	7.93	30.2	51.5	56.5	59.8	35.8	40.0	45.0
0.5	30.5	7.88	7.39	7.05	30.5	51.5	56.5	59.8	35.8	39.8	45.0
1.0	31.0	7.55	7.05	6.72	31.0	51.8	56.7	60.0	36.0	40.0	45.0
5.0	35.0	6.91	6.41	6.25	35.0	52.0	57.3	60.5	35.8	40.2	45.0
10.0	40.0	6.90	6.40	6.06	40.0	52.2	57.2	63.2	36.0	40.2	45.2
40.0	70.0	6.91	6.41	6.07	70.0	52.7	57.7	62.2	35.7	39.5	43.8
70.0	100.0	6.87	6.36	6.03	100.0	54.2	58.5	59.3	35.5	39.3	43.5
105.4	135.4	6.98	6.48	6.14	135.4	55.0	61.8	63.3	35.3	39.0	43.5
150.0	180.0	7.17	6.50	6.17	180.0	55.0	67.8	56.8	35.3	39.3	42.7
210.6	240.6	7.11	6.61	6.11	240.6	55.3	66.3	54.7	35.5	40.0	42.7
225.0	255.0	7.46	6.62	6.29	255.0	54.7	71.2	53.0	35.3	39.7	41.8
315.9	345.9	7.46	6.62	6.29	345.9	48.2	54.3	50.2	36.5	41.2	40.8
335.0	365.0	7.40	6.73	6.23	365.0	48.2	53.5	51.5	37.3	41.7	41.8
400.0	430.0	7.59	6.93	6.43	430.0	43.7	47.5	48.2	39.2	43.2	40.5
421.1	451.1	7.57	6.91	6.41	451.1	43.8	47.2	48.2	40.0	43.7	41.8
440.0	470.0	7.38	6.89	6.39	470.0	42.8	46.0	46.8	40.5	44.3	42.2
510.0	540.0	7.43	6.76	6.43	540.0	40.7	42.8	45.2	42.5	43.3	40.5
526.4	556.4	7.59	6.93	6.43	556.4	40.2	42.2	44.0	43.0	43.7	39.7
631.6	661.6	8.02	7.02	6.52	661.6	38.0	41.0	43.0	45.8	45.3	37.0
736.9	766.9	8.39	7.06	6.56	766.9	35.8	39.5	44.2	46.3	42.2	35.8
842.2	872.2	8.92	7.58	6.92	872.2	33.8	36.3	41.5	45.0	39.8	34.2
947.4	977.4	9.06	7.73	7.06	977.4	32.0	34.2	37.7	43.2	37.8	33.2
1000.0	1030.0	9.48	7.82	7.15	1030.0	31.7	34.0	38.0	40.0	38.3	33.5
1052.7	1082.7	8.90	7.57	7.07	1082.7	31.3	35.2	40.7	37.3	36.2	32.8
1157.9	1187.9	9.10	7.77	7.27	1187.9	31.5	35.5	40.8	35.5	36.2	33.0
1263.2	1293.2	9.24	7.90	7.57	1293.2	31.0	35.7	41.5	34.3	36.3	34.2
1368.5	1398.5	9.77	8.27	7.77	1398.5	29.8	33.8	40.0	34.2	36.2	34.8
1473.7	1503.7	9.99	8.83	7.99	1503.7	28.5	31.7	37.2	35.3	37.5	34.0
1500.0	1530.0	10.36	8.69	8.19	1530.0	28.0	31.5	35.8	35.8	38.2	34.3

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Typical Performance Data

RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)		
	@LO (dBm)			@LO (dBm)				@LO (dBm)		
	+20	+23	+26	+20	+23	+26		+20	+23	+26
30.2	1.95	1.95	2.24	1.23	1.36	2.17	0.3	1.41	1.33	1.42
30.5	1.50	1.44	1.54	1.22	1.35	2.17	0.5	1.52	1.34	1.30
31.0	1.42	1.31	1.31	1.20	1.35	2.17	1.0	1.65	1.39	1.24
35.0	1.44	1.25	1.12	1.21	1.39	2.20	5.0	1.78	1.47	1.22
40.0	1.45	1.25	1.10	1.24	1.35	2.17	10.0	1.83	1.50	1.23
70.0	1.45	1.25	1.08	1.23	1.32	2.17	28.5	1.83	1.49	1.23
100.0	1.41	1.23	1.07	1.21	1.33	2.04	30.0	1.81	1.47	1.23
135.4	1.46	1.26	1.08	1.27	1.39	2.28	56.8	1.81	1.49	1.23
180.0	1.46	1.25	1.08	1.29	1.34	1.98	85.2	1.81	1.49	1.22
240.6	1.52	1.30	1.12	1.40	1.35	2.28	100.0	1.74	1.45	1.21
255.0	1.58	1.33	1.12	1.37	1.34	2.10	113.6	1.76	1.46	1.21
345.9	1.58	1.29	1.13	1.52	1.27	1.90	141.9	1.74	1.44	1.20
365.0	1.55	1.31	1.15	1.46	1.28	1.61	170.3	1.71	1.42	1.19
430.0	1.61	1.37	1.20	1.67	1.26	1.81	198.6	1.69	1.40	1.18
451.1	1.59	1.38	1.21	1.56	1.25	1.47	227.0	1.67	1.40	1.17
470.0	1.56	1.37	1.22	1.62	1.25	1.54	250.0	1.65	1.39	1.16
540.0	1.59	1.39	1.23	1.72	1.21	1.36	255.4	1.65	1.39	1.17
556.4	1.59	1.39	1.24	1.81	1.22	1.39	283.7	1.67	1.39	1.16
661.6	1.81	1.52	1.34	2.24	1.33	1.30	300.0	1.65	1.38	1.15
766.9	2.01	1.64	1.42	2.51	1.40	1.08	312.1	1.67	1.39	1.15
872.2	2.24	1.85	1.58	2.56	1.50	1.15	340.5	1.69	1.39	1.15
977.4	2.37	1.92	1.65	2.51	1.65	1.43	368.8	1.67	1.39	1.14
1030.0	2.56	2.01	1.73	2.67	1.81	1.58	397.2	1.69	1.39	1.14
1082.7	2.41	1.90	1.65	2.32	1.71	1.55	400.0	1.71	1.39	1.14
1187.9	2.32	1.83	1.62	2.10	1.69	1.67	425.5	1.73	1.40	1.15
1293.2	2.20	1.81	1.59	1.98	1.69	1.76	453.9	1.73	1.40	1.15
1398.5	2.17	1.83	1.61	1.85	1.77	2.01	482.3	1.74	1.40	1.14
1503.7	2.04	1.74	1.54	1.64	1.77	2.37	500.0	1.71	1.39	1.14
1530.0	2.07	1.73	1.55	1.46	1.58	1.90	510.6	1.74	1.40	1.14