

Frequency Mixer

SYM-15VH

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
10.0	40.0	6.65	6.25	6.05	40.0	48.8	53.5	55.0	32.7	36.0	39.1
15.0	45.0	6.50	6.10	6.00	45.0	49.1	53.7	55.0	32.8	36.0	39.1
20.0	50.0	6.81	6.31	6.01	50.0	49.0	53.4	54.7	32.4	35.7	38.8
70.0	100.0	6.67	6.17	5.97	100.0	50.6	49.7	47.2	31.9	35.3	38.2
100.0	130.0	6.68	6.18	5.98	130.0	50.0	47.4	46.0	31.9	35.4	38.3
150.0	180.0	6.85	6.25	5.95	180.0	48.0	43.9	42.2	32.0	35.2	37.5
278.2	308.2	6.74	6.34	6.04	308.2	40.2	39.2	37.8	33.0	35.6	36.8
417.1	447.1	7.23	6.53	6.13	447.1	38.8	37.0	35.9	34.8	36.1	36.3
500.0	530.0	7.21	6.41	6.11	530.0	37.8	36.6	35.4	35.8	36.9	36.2
555.9	585.9	7.20	6.40	6.10	585.9	37.2	36.7	35.9	37.1	37.7	36.2
694.8	724.8	7.55	6.65	6.35	724.8	37.9	36.5	35.4	38.6	37.1	35.1
720.0	750.0	7.41	6.61	6.41	750.0	37.7	36.7	35.8	38.4	36.5	35.0
750.0	780.0	7.55	6.65	6.35	780.0	38.9	37.2	35.5	39.0	35.9	34.0
800.0	830.0	7.02	6.52	6.32	830.0	37.5	36.3	35.7	36.6	34.6	33.6
972.5	1002.5	7.33	6.73	6.53	1002.5	37.5	36.4	36.5	34.7	33.3	32.7
1000.0	1030.0	7.52	6.82	6.52	1030.0	38.9	37.4	36.8	35.8	33.5	32.5
1250.3	1280.3	7.59	7.09	6.79	1280.3	40.2	39.6	39.5	33.0	32.0	32.2
1389.1	1419.1	8.50	7.40	7.10	1419.1	42.9	41.5	40.8	34.5	33.6	33.3
1470.0	1500.0	9.23	7.63	7.23	1500.0	45.7	43.0	41.7	34.4	34.8	34.1
1500.0	1530.0	8.58	7.58	7.28	1530.0	44.4	42.6	41.6	34.1	34.3	33.9



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RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)		
	@LO (dBm)			@LO (dBm)				@LO (dBm)		
	+20	+23	+26	+20	+23	+26		+20	+23	+26
40.0	1.31	1.19	1.14	1.26	1.32	2.03	10.0	1.14	1.30	1.52
45.0	1.30	1.17	1.10	1.25	1.31	2.04	30.0	1.14	1.25	1.46
50.0	1.30	1.17	1.09	1.23	1.31	2.08	50.0	1.15	1.23	1.43
100.0	1.32	1.16	1.06	1.23	1.25	1.82	70.0	1.16	1.23	1.44
130.0	1.30	1.16	1.07	1.26	1.26	1.91	76.0	1.16	1.22	1.42
180.0	1.37	1.20	1.08	1.22	1.28	1.89	150.9	1.19	1.19	1.37
308.2	1.41	1.29	1.20	1.25	1.23	1.73	225.9	1.20	1.18	1.35
447.1	1.61	1.41	1.31	1.39	1.20	1.78	250.0	1.20	1.17	1.33
530.0	1.67	1.46	1.37	1.45	1.16	1.77	300.8	1.20	1.18	1.33
585.9	1.70	1.48	1.39	1.42	1.08	1.47	375.8	1.20	1.19	1.34
724.8	1.97	1.70	1.61	1.85	1.14	1.42	450.7	1.22	1.21	1.36
750.0	1.96	1.74	1.65	1.61	1.14	1.26	500.0	1.24	1.22	1.36
780.0	2.10	1.78	1.70	1.89	1.20	1.31	525.7	1.26	1.22	1.35
830.0	2.04	1.85	1.77	1.91	1.24	1.22	600.6	1.27	1.21	1.35
1002.5	2.25	2.04	1.92	2.61	1.43	1.05	750.0	1.30	1.24	1.35
1030.0	2.49	2.16	2.03	2.16	1.36	1.03	825.5	1.32	1.23	1.33
1280.3	2.61	2.32	2.16	3.01	1.64	1.29	975.4	1.39	1.18	1.20
1419.1	2.55	2.16	2.03	2.27	1.51	1.26	1000.0	1.40	1.16	1.17
1500.0	2.68	2.20	2.06	2.40	1.60	1.31	1050.3	1.41	1.15	1.13
1530.0	2.49	2.18	2.04	2.37	1.59	1.34	1500.0	1.63	1.28	1.12

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