

Frequency Mixer

SYM-ED5980/1

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)		
		+7	+10	+13		+7	+10	+13	+7	+10	+13
293.8	323.8	44.70	8.42	8.22	323.8	53.6	52.9	51.9	44.7	46.1	44.7
375.0	405.0	44.50	8.08	7.88	405.0	53.8	53.2	52.0	45.4	46.6	44.5
456.3	486.3	43.30	7.72	7.62	486.3	54.2	53.3	52.2	43.8	45.6	43.3
537.5	567.5	42.60	7.54	7.34	567.5	56.7	53.9	52.3	42.9	46.0	42.6
618.8	648.8	42.40	7.31	7.11	648.8	56.8	53.7	52.1	41.5	45.6	42.4
700.0	730.0	42.30	7.12	6.92	730.0	59.6	56.4	53.9	39.6	43.7	42.3
780.0	810.0	39.00	6.83	6.73	810.0	65.8	58.8	54.4	37.9	40.0	39.0
800.0	830.0	38.50	6.81	6.61	830.0	66.9	60.4	55.0	37.7	39.5	38.5
862.5	892.5	37.50	6.52	6.52	892.5	62.6	68.2	58.0	37.0	38.5	37.5
943.8	973.8	35.70	6.58	6.38	973.8	58.3	64.6	62.3	37.3	36.9	35.7
1025.0	1055.0	33.20	6.29	6.19	1055.0	55.6	63.8	70.7	37.9	35.5	33.2
1106.3	1136.3	31.90	6.40	6.20	1136.3	52.3	56.7	59.2	36.1	34.0	31.9
1170.0	1200.0	30.90	6.46	6.36	1200.0	50.3	52.9	53.9	34.9	32.9	30.9
1187.5	1217.5	30.70	6.57	6.37	1217.5	50.8	52.9	53.7	34.2	32.8	30.7
1268.8	1298.8	29.60	6.73	6.43	1298.8	45.7	46.5	46.7	31.6	30.7	29.6
1350.0	1380.0	27.60	6.73	6.53	1380.0	42.7	44.0	45.0	30.2	28.5	27.6
1431.3	1461.3	26.60	6.54	6.44	1461.3	40.0	41.6	43.0	29.4	27.8	26.6
1500.0	1530.0	25.80	6.69	6.39	1530.0	38.5	40.8	42.4	28.3	27.0	25.8
1512.5	1542.5	25.70	6.57	6.37	1542.5	38.4	40.6	42.4	28.0	26.8	25.7
1593.8	1623.8	24.80	6.41	6.31	1623.8	36.8	39.9	42.3	26.8	26.0	24.8

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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)		
	+7	+10	+13	+7	+10	+13		+7	+10	+13
323.8	3.16	3.01	2.88	2.92	2.58	2.96	1.0	1.64	1.43	1.32
405.0	2.72	2.61	2.49	2.68	2.37	2.92	25.0	1.59	1.39	1.29
486.3	2.49	2.43	2.37	2.32	2.23	2.80	50.0	1.59	1.39	1.28
567.5	2.46	2.37	2.35	2.10	2.14	2.72	54.6	1.59	1.39	1.28
648.8	2.32	2.25	2.23	1.91	2.10	2.68	109.2	1.60	1.39	1.29
730.0	2.16	2.12	2.08	1.78	2.06	2.72	163.7	1.59	1.39	1.28
810.0	2.03	1.97	1.94	1.70	2.10	2.80	218.3	1.58	1.38	1.28
830.0	2.01	1.97	1.94	1.71	2.10	2.80	272.8	1.57	1.38	1.28
892.5	1.97	1.94	1.92	1.70	2.20	3.01	327.3	1.59	1.40	1.30
973.8	1.89	1.85	1.85	1.69	2.32	3.26	381.9	1.64	1.43	1.33
1055.0	1.70	1.68	1.69	1.74	2.43	3.44	436.4	1.70	1.48	1.36
1136.3	1.66	1.67	1.69	1.69	2.43	3.38	491.0	1.71	1.49	1.38
1200.0	1.66	1.70	1.73	1.66	2.37	3.11	545.5	1.71	1.50	1.39
1217.5	1.67	1.69	1.71	1.71	2.37	3.21	600.1	1.70	1.51	1.40
1298.8	1.67	1.70	1.74	1.73	2.43	3.11	654.6	1.71	1.51	1.41
1380.0	1.51	1.54	1.59	1.71	2.43	3.06	709.1	1.70	1.52	1.43
1461.3	1.38	1.42	1.48	1.76	2.35	2.96	763.7	1.71	1.54	1.47
1530.0	1.32	1.39	1.46	1.77	2.37	2.92	818.2	1.71	1.56	1.51
1542.5	1.32	1.39	1.46	1.81	2.37	3.01	872.8	1.74	1.61	1.59
1623.8	1.37	1.50	1.59	1.81	2.40	3.01	927.3	1.78	1.69	1.68