

Frequency Mixer

SYM-ED6445/1

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)		
		+4	+7	+10		+4	+7	+10	+4	+7	+10
100.0	70.0	7.33	5.73	5.33	70.0	15.0	18.4	21.2	37.4	42.6	46.4
130.0	100.0	7.27	5.77	5.47	100.0	17.2	21.0	23.6	37.8	43.2	46.7
195.8	165.8	7.57	6.17	5.67	165.8	21.1	24.4	26.9	39.1	44.8	47.6
351.6	321.6	8.07	6.47	5.77	321.6	27.0	29.6	31.2	40.5	51.1	46.4
507.4	477.4	8.68	6.68	6.08	477.4	33.9	34.3	34.6	37.4	53.1	45.9
663.2	633.2	9.25	7.05	6.35	633.2	47.0	44.4	42.4	35.7	44.5	58.8
680.0	650.0	9.42	6.92	6.32	650.0	49.1	45.5	43.0	35.4	44.2	59.1
700.0	670.0	9.39	6.89	6.29	670.0	50.6	46.4	43.8	35.3	44.0	56.9
730.0	700.0	9.40	7.00	6.40	700.0	52.4	47.7	45.0	35.1	43.0	52.9
818.9	788.9	9.52	7.02	6.52	788.9	56.1	50.5	48.9	33.8	40.1	44.9
974.7	944.7	8.61	6.61	6.11	944.7	50.5	47.2	45.3	31.4	35.0	37.4
1130.5	1100.5	8.82	5.92	5.42	1100.5	56.9	51.1	55.9	29.3	32.9	35.3
1286.3	1256.3	7.03	3.93	3.43	1256.3	47.8	50.5	48.6	29.5	32.6	34.5
1442.1	1412.1	7.76	5.86	5.36	1412.1	48.1	47.4	45.7	29.5	31.5	32.9
1597.9	1567.9	8.58	7.08	6.48	1567.9	50.4	48.8	47.1	29.7	30.7	31.8
1753.7	1723.7	8.83	7.03	6.33	1723.7	60.5	59.2	49.9	30.5	31.0	31.7
1909.5	1879.5	8.75	7.15	6.65	1879.5	51.0	48.9	51.3	31.4	31.9	32.9
1990.0	1960.0	8.53	7.33	6.83	1960.0	50.0	47.0	47.6	31.7	32.6	33.4
2020.0	1990.0	8.63	7.33	6.93	1990.0	47.4	45.2	45.5	31.8	32.7	33.6
2065.3	2035.3	8.90	7.40	7.00	2035.3	44.7	42.2	42.0	31.6	32.7	33.8

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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)		
	+4	+7	+10	+4	+7	+10		+4	+7	+10
70.0	3.32	1.87	1.92	2.18	1.69	1.57	1.0	2.35	1.69	1.46
100.0	2.65	1.47	1.70	2.06	1.59	1.46	1.4	2.37	1.71	1.47
165.8	2.16	1.15	1.56	2.12	1.64	1.48	3.5	2.40	1.71	1.47
321.6	2.35	1.16	1.43	2.68	2.10	1.91	5.0	2.37	1.69	1.46
477.4	3.06	1.43	1.31	3.64	2.84	2.49	8.4	2.35	1.69	1.46
633.2	3.86	1.69	1.24	4.64	3.57	3.16	10.0	2.37	1.70	1.46
650.0	4.42	1.74	1.24	4.77	3.38	3.11	20.3	2.32	1.67	1.44
670.0	4.53	1.76	1.25	4.77	3.50	3.16	30.0	2.32	1.67	1.44
700.0	4.32	1.77	1.24	4.77	3.44	3.11	49.2	2.27	1.66	1.44
788.9	4.77	1.85	1.23	4.89	3.57	3.16	119.2	2.20	1.63	1.42
944.7	5.03	1.94	1.19	4.77	3.38	2.96	288.8	1.91	1.43	1.26
1100.5	5.17	2.14	1.32	4.64	2.76	2.32	400.0	1.70	1.24	1.10
1256.3	5.17	2.20	1.45	3.38	2.30	2.03	700.1	1.18	1.21	1.42
1412.1	3.95	1.88	1.54	2.30	1.85	1.74	770.0	1.11	1.29	1.51
1567.9	2.61	1.56	1.70	1.91	1.63	1.55	840.0	1.07	1.33	1.55
1723.7	2.08	1.37	1.76	1.62	1.32	1.21	910.0	1.05	1.33	1.55
1879.5	1.68	1.15	1.61	1.59	1.39	1.33	980.0	1.08	1.31	1.51
1960.0	1.47	1.16	1.63	1.74	1.59	1.55	1000.0	1.09	1.31	1.51
1990.0	1.45	1.19	1.60	1.85	1.71	1.66	1050.0	1.14	1.30	1.48
2035.3	1.51	1.26	1.66	2.08	1.89	1.84	1120.0	1.20	1.30	1.45