

Frequency Mixer

SYM-ED8146/1

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)		
		+14	+17	+20		+14	+17	+20	+14	+17	+20
100.0	130.0	9.46	8.26	8.16	130.0	52.6	50.9	52.8	17.4	13.6	13.3
158.0	188.0	8.86	8.26	7.46	188.0	46.7	55.4	50.1	15.4	13.0	12.7
306.0	336.0	7.79	6.69	6.49	336.0	45.1	50.9	43.5	13.5	12.4	11.9
454.0	484.0	8.50	7.40	7.10	484.0	46.3	45.1	45.0	13.5	13.2	13.8
500.0	530.0	8.48	7.48	6.98	530.0	42.6	43.4	44.2	14.4	14.5	15.4
602.0	632.0	7.93	7.13	6.93	632.0	45.2	43.9	43.4	16.2	17.2	18.4
700.0	730.0	7.44	7.04	6.94	730.0	49.9	47.5	45.1	20.3	21.2	22.2
750.0	780.0	7.25	7.05	7.05	780.0	51.4	48.8	45.5	22.9	23.6	24.3
800.0	830.0	7.22	7.02	7.12	830.0	48.6	48.1	45.6	25.5	26.0	26.4
900.0	930.0	7.01	6.81	6.81	930.0	43.7	44.6	44.2	30.6	30.6	30.5
1000.0	1030.0	6.69	6.49	6.49	1030.0	40.8	42.1	42.7	35.2	34.3	33.8
1046.0	1076.0	6.60	6.50	6.50	1076.0	40.8	42.6	44.5	36.9	35.9	35.4
1194.0	1224.0	6.92	6.82	6.82	1224.0	40.5	42.0	43.6	39.4	38.3	37.4
1200.0	1230.0	6.95	6.85	6.85	1230.0	40.6	42.1	43.7	39.3	38.3	37.4
1342.0	1372.0	6.70	6.60	6.70	1372.0	40.1	41.1	40.7	35.9	35.2	34.7
1470.0	1500.0	6.61	6.51	6.61	1500.0	42.1	42.8	40.7	32.8	32.4	32.2
1490.0	1520.0	6.53	6.53	6.63	1520.0	42.5	43.3	40.6	32.4	31.9	31.4
1500.0	1530.0	6.54	6.54	6.64	1530.0	43.0	43.6	40.8	32.2	31.7	31.2

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RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)		
	@LO (dBm)			@LO (dBm)				@LO (dBm)		
	+14	+17	+20	+14	+17	+20		+14	+17	+20
130.0	1.29	1.76	2.49	2.55	2.32	1.76	0.5	1.40	1.34	1.30
188.0	1.46	2.14	2.96	2.72	2.12	1.65	1.0	1.42	1.35	1.29
336.0	1.67	1.89	2.12	2.61	1.87	1.66	5.0	1.47	1.39	1.32
484.0	2.55	3.06	3.32	2.40	1.89	1.91	10.0	1.48	1.40	1.33
530.0	2.72	3.32	3.57	2.35	1.87	1.89	20.0	1.49	1.41	1.35
632.0	3.11	3.38	3.57	2.32	1.97	2.04	30.0	1.52	1.44	1.39
730.0	2.92	3.11	3.26	2.20	1.99	2.25	35.1	1.56	1.48	1.42
780.0	2.76	2.92	3.01	2.40	2.14	2.55	50.0	1.59	1.53	1.47
830.0	2.68	2.80	2.92	2.12	2.06	2.46	70.1	1.73	1.65	1.61
930.0	2.65	2.80	2.96	1.92	2.06	2.65	100.0	1.94	1.87	1.81
1030.0	2.58	2.76	2.92	1.74	2.06	2.76	105.1	2.01	1.92	1.88
1076.0	2.52	2.68	2.84	1.59	1.94	2.52	140.1	2.35	2.25	2.18
1224.0	1.96	2.06	2.20	1.45	1.94	2.61	175.1	2.65	2.52	2.43
1230.0	1.96	2.06	2.20	1.46	1.96	2.61	210.1	3.21	3.01	2.88
1372.0	1.71	1.84	2.01	1.28	1.80	2.40	245.1	3.64	3.38	3.21
1500.0	1.52	1.63	1.71	1.20	1.71	2.35	250.0	3.79	3.57	3.32