

Frequency Mixer

SYM-ED6439/1

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
900.0	930.0	6.41	5.31	4.91	930.0	33.7	35.6	34.9	11.7	12.8	13.1
1000.0	1030.0	6.17	5.07	4.77	1030.0	34.8	35.7	35.9	16.6	17.3	16.9
1100.0	1130.0	6.30	5.30	4.80	1130.0	31.7	33.9	35.0	22.2	22.3	21.5
1200.0	1230.0	6.32	5.62	5.22	1230.0	32.1	34.1	35.2	27.0	26.3	25.4
1300.0	1330.0	6.52	6.02	5.62	1330.0	32.3	34.8	36.2	30.5	29.6	28.5
1400.0	1430.0	6.31	6.01	5.81	1430.0	32.3	34.2	35.6	33.7	32.5	31.5
1500.0	1530.0	5.82	5.62	5.62	1530.0	30.9	33.4	37.0	36.5	35.2	34.3
1600.0	1630.0	5.72	5.22	5.12	1630.0	29.8	33.5	37.2	39.2	38.1	36.6
1700.0	1730.0	5.86	5.26	5.26	1730.0	31.3	35.3	39.9	43.3	42.0	40.2
1800.0	1830.0	5.65	5.45	5.35	1830.0	31.1	34.3	38.8	47.2	45.4	43.9
1830.0	1860.0	5.81	5.51	5.41	1860.0	30.4	33.8	38.0	47.8	45.9	44.3
1900.0	1930.0	6.46	6.06	5.86	1930.0	29.8	32.1	35.2	48.9	47.4	46.0
1970.0	2000.0	6.87	6.37	6.07	2000.0	29.4	31.0	33.9	48.7	47.7	46.4
2000.0	2030.0	6.80	6.30	6.10	2030.0	29.3	31.5	34.2	48.5	47.5	46.4
2100.0	2130.0	7.01	6.61	6.21	2130.0	28.5	30.1	32.2	46.9	46.0	44.7
2150.0	2180.0	7.06	6.66	6.36	2180.0	28.3	29.8	31.7	46.3	45.3	44.1
2170.0	2200.0	7.16	6.76	6.56	2200.0	28.3	29.7	31.2	46.1	45.1	43.8
2200.0	2230.0	7.31	6.91	6.61	2230.0	28.3	29.5	30.7	45.9	44.7	43.4
2250.0	2280.0	7.60	7.20	7.00	2280.0	28.2	29.2	30.2	45.4	44.5	43.2
2300.0	2330.0	7.95	7.55	7.35	2330.0	28.9	29.6	30.4	46.3	45.1	43.6

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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
930.0	2.06	1.94	1.82	4.12	2.37	1.92	1.0	1.59	1.38	1.25
1030.0	1.59	1.44	1.33	3.95	2.16	1.91	5.0	1.57	1.37	1.24
1130.0	1.59	1.43	1.32	3.95	2.10	1.91	10.0	1.55	1.35	1.23
1230.0	1.78	1.73	1.69	3.71	2.14	1.92	40.0	1.54	1.35	1.23
1330.0	2.03	2.04	2.03	3.11	2.01	1.92	53.0	1.57	1.37	1.24
1430.0	2.12	2.20	2.30	2.68	2.08	2.04	106.0	1.53	1.36	1.26
1530.0	1.99	2.06	2.20	2.43	1.97	2.06	158.9	1.48	1.36	1.31
1630.0	2.16	1.99	2.01	2.30	1.85	2.01	200.0	1.46	1.39	1.40
1730.0	2.08	1.89	1.88	2.27	1.75	1.92	211.8	1.45	1.40	1.42
1830.0	1.81	1.65	1.58	2.10	1.55	1.80	240.0	1.45	1.44	1.50
1860.0	1.82	1.65	1.57	2.14	1.56	1.91	264.8	1.46	1.49	1.56
1930.0	2.08	1.92	1.81	1.91	1.48	1.80	317.7	1.53	1.63	1.75
2000.0	2.32	2.18	2.08	1.68	1.40	1.78	370.6	1.61	1.76	1.91
2030.0	2.35	2.20	2.12	1.75	1.43	1.82	423.6	1.67	1.88	2.04
2130.0	2.65	2.52	2.37	1.57	1.43	1.94	476.5	1.74	1.96	2.16
2180.0	2.88	2.72	2.61	1.49	1.44	1.91	529.5	1.77	1.99	2.20
2200.0	2.88	2.80	2.68	1.51	1.48	1.99	582.4	1.81	2.03	2.25
2230.0	2.96	2.88	2.80	1.48	1.51	1.97	635.3	1.82	2.04	2.23
2280.0	3.11	3.06	3.01	1.48	1.63	2.20	688.3	1.73	1.91	2.08
2330.0	3.38	3.32	3.26	1.46	1.68	2.27	741.2	1.64	1.78	1.92