

Frequency Mixer

SYM-ED7719/1

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
3.0	33.0	7.28	6.68	6.48	33.0	32.7	35.9	38.6	47.2	53.0	59.5
5.0	35.0	6.63	6.13	5.93	35.0	33.1	36.2	39.0	47.6	53.2	59.9
10.0	40.0	6.35	5.95	5.75	40.0	33.7	36.9	39.9	47.8	53.9	61.5
20.0	50.0	6.21	5.81	5.61	50.0	35.2	38.1	41.0	48.3	53.9	61.7
50.0	80.0	6.13	5.83	5.53	80.0	37.1	40.5	43.4	48.5	55.4	62.2
170.5	200.5	6.38	5.98	5.68	200.5	41.5	44.6	47.0	52.7	55.3	52.5
340.5	370.5	6.91	6.31	5.91	370.5	49.0	47.5	44.8	56.6	49.8	47.1
510.4	540.4	7.75	6.75	6.25	540.4	44.4	41.4	39.9	46.5	44.6	43.6
680.4	710.4	6.89	6.39	6.09	710.4	37.8	36.7	36.2	42.3	41.9	41.4
824.0	854.0	6.77	6.27	6.07	854.0	35.2	34.3	34.0	40.7	40.3	39.6
850.4	880.4	6.66	6.16	6.16	880.4	34.7	34.1	33.8	40.0	39.9	39.4
960.0	990.0	6.73	6.23	6.03	990.0	33.4	33.2	33.1	39.6	39.2	38.4
1020.4	1050.4	6.56	6.06	5.86	1050.4	33.0	32.8	32.7	39.1	38.7	37.7
1034.0	1064.0	6.72	6.12	5.92	1064.0	33.0	33.0	32.9	39.3	39.0	38.0
1170.0	1200.0	7.33	6.53	6.13	1200.0	33.0	33.5	33.3	37.1	37.2	36.9
1190.3	1220.3	7.50	6.60	6.30	1220.3	32.8	33.4	33.4	36.5	37.0	36.7
1200.0	1230.0	7.42	6.62	6.32	1230.0	32.8	33.4	33.4	36.3	36.6	36.5
1360.3	1390.3	9.40	7.70	7.00	1390.3	32.5	33.0	32.8	36.0	35.9	35.5
1530.3	1560.3	9.95	8.45	7.65	1560.3	30.6	31.3	31.8	36.2	36.0	35.7
1700.3	1730.3	9.52	8.02	7.42	1730.3	30.0	30.2	30.6	36.5	35.7	36.0
1870.2	1900.2	8.85	7.65	7.15	1900.2	30.9	30.9	30.6	36.9	36.1	35.8
2040.2	2070.2	8.50	7.50	7.10	2070.2	33.8	33.5	32.7	38.4	37.0	36.3
2210.2	2240.2	8.54	7.54	7.24	2240.2	38.8	38.1	37.0	38.7	40.6	42.3
2380.2	2410.2	8.45	7.75	7.45	2410.2	43.3	41.4	41.6	39.0	42.3	48.2
2400.0	2430.0	8.51	7.81	7.51	2430.0	42.5	41.1	41.3	39.2	42.4	48.6
2550.1	2580.1	8.56	8.06	7.86	2580.1	36.3	37.3	38.6	44.0	49.5	47.1
2560.0	2590.0	8.59	8.09	7.79	2590.0	36.2	37.3	39.0	43.6	48.3	45.4
2720.1	2750.1	8.82	8.42	8.12	2750.1	29.6	31.9	34.4	32.1	31.2	29.7
2890.1	2920.1	9.61	8.91	8.61	2920.1	32.0	34.8	39.1	29.9	29.2	28.3

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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)		
	+14	+17	+20	+14	+17	+20		+14	+17	+20
33.0	2.72	2.49	2.40	1.13	1.58	2.27	0.5	1.39	1.15	1.15
35.0	1.89	1.77	1.71	1.12	1.58	2.30	0.8	1.41	1.13	1.11
40.0	1.52	1.40	1.35	1.11	1.58	2.30	1.0	1.43	1.13	1.09
50.0	1.43	1.30	1.23	1.05	1.58	2.32	5.0	1.43	1.10	1.05
80.0	1.44	1.27	1.19	1.04	1.56	2.25	10.0	1.44	1.10	1.05
200.5	1.61	1.43	1.34	1.13	1.54	2.25	30.0	1.41	1.10	1.05
370.5	1.89	1.70	1.55	1.23	1.50	2.12	50.0	1.41	1.11	1.06
540.4	2.14	1.89	1.74	1.40	1.49	1.97	60.5	1.44	1.11	1.07
710.4	2.27	2.03	1.91	1.58	1.44	1.92	70.0	1.41	1.11	1.07
854.0	2.23	2.03	1.94	1.96	1.51	1.84	100.0	1.40	1.11	1.09
880.4	2.27	2.04	1.96	1.99	1.51	1.81	120.5	1.38	1.11	1.11
990.0	2.35	2.08	1.96	2.12	1.44	1.57	180.4	1.35	1.13	1.17
1050.4	2.35	2.06	1.92	2.35	1.54	1.65	200.0	1.32	1.13	1.20
1064.0	2.37	2.03	1.87	2.40	1.52	1.60	240.0	1.31	1.17	1.26
1200.0	2.68	2.20	2.01	2.46	1.62	1.50	300.0	1.28	1.23	1.32
1220.3	2.58	2.20	2.04	2.58	1.69	1.53	360.4	1.30	1.30	1.40
1230.0	2.65	2.25	2.10	2.52	1.68	1.52	400.0	1.30	1.32	1.43
1390.3	2.72	2.40	2.23	2.76	1.80	1.48	420.3	1.31	1.35	1.45
1560.3	2.72	2.49	2.35	2.55	1.70	1.34	480.3	1.29	1.34	1.45
1730.3	2.84	2.52	2.40	2.92	1.80	1.22	500.0	1.28	1.33	1.44
1900.2	2.88	2.49	2.35	3.26	1.88	1.29	540.3	1.25	1.33	1.46
2070.2	2.61	2.25	2.08	3.01	1.82	1.56	600.0	1.18	1.30	1.44
2240.2	2.27	2.01	1.87	2.68	1.89	1.89	660.2	1.12	1.31	1.48
2410.2	1.84	1.69	1.65	2.25	2.03	2.32	720.2	1.07	1.29	1.46
2430.0	1.80	1.68	1.65	2.18	2.04	2.40	780.2	1.03	1.27	1.45
2580.1	1.49	1.46	1.48	1.82	2.10	2.65	840.2	1.11	1.32	1.51
2590.0	1.44	1.44	1.46	1.78	2.06	2.65	900.1	1.16	1.34	1.52
2750.1	1.30	1.40	1.49	1.57	2.04	2.65	960.1	1.20	1.33	1.50
2920.1	1.25	1.37	1.46	1.68	2.16	2.72	1000.0	1.23	1.32	1.48