

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+5dBm (dB)			LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
		@LO (dBm)					@LO (dBm)				@LO (dBm)			@LO (dBm)		
		+7	+10	+13			+7	+10	+13		+7	+10	+13	+7	+10	+13
1.0	31.0	9.70	9.00	8.60	1.0	31.0	-0.52	-0.52	-0.52	31.0	38.60	42.00	45.30	38.80	42.50	46.20
2.0	32.0	7.15	6.65	6.25	2.0	32.0	0.47	0.37	0.37	32.0	38.80	42.20	45.50	38.90	42.60	46.20
2.5	32.5	6.76	6.26	5.86	2.5	32.5	0.57	0.37	0.37	32.5	38.90	42.30	45.60	38.90	42.70	46.20
5.0	35.0	6.21	5.71	5.41	5.0	35.0	0.56	0.46	0.46	35.0	39.40	42.80	46.00	39.20	42.90	46.40
10.0	40.0	6.10	5.70	5.40	10.0	40.0	0.55	0.35	0.25	40.0	40.10	43.60	46.90	39.60	43.40	47.00
25.0	55.0	6.12	5.62	5.32	25.0	55.0	0.52	0.32	0.22	55.0	42.00	45.30	48.80	40.40	44.30	48.40
50.0	80.0	6.12	5.52	5.32	50.0	80.0	0.56	0.36	0.26	80.0	43.80	47.50	50.90	41.20	45.80	49.80
75.0	105.0	5.94	5.54	5.24	75.0	105.0	0.62	0.42	0.32	105.0	45.00	48.50	51.70	42.10	46.50	49.90
100.0	130.0	5.98	5.58	5.38	100.0	130.0	0.69	0.39	0.19	130.0	45.80	49.40	52.00	42.80	47.20	49.20
151.0	181.0	6.03	5.63	5.43	151.0	181.0	0.65	0.35	0.15	181.0	47.10	50.10	51.40	44.00	47.40	46.60
300.9	330.9	6.64	6.04	5.64	300.9	330.9	0.56	0.26	0.26	330.9	50.60	50.70	49.80	48.00	43.10	40.40
450.9	480.9	7.21	6.31	5.81	450.9	480.9	0.49	0.49	0.39	480.9	52.60	53.00	51.30	43.10	38.20	36.10
500.0	530.0	7.08	6.28	5.78	500.0	530.0	0.60	0.50	0.40	530.0	54.70	56.00	53.80	40.90	37.00	35.20
600.8	630.8	7.20	6.40	6.00	600.8	630.8	0.68	0.48	0.38	630.8	54.40	66.10	64.10	39.00	35.90	34.50
750.8	780.8	7.38	6.58	6.18	750.8	780.8	0.72	0.52	0.42	780.8	47.50	49.80	53.10	37.10	34.20	32.60
900.7	930.7	7.54	6.64	6.24	900.7	930.7	0.77	0.57	0.37	930.7	45.70	47.40	48.10	35.10	32.90	31.20
1000.0	1030.0	7.87	7.07	6.67	1000.0	1030.0	0.50	0.20	0.10	1030.0	43.30	43.90	44.30	33.70	32.20	30.90
1200.6	1230.6	7.88	6.98	6.58	1200.6	1230.6	0.45	0.25	0.05	1230.6	39.10	39.30	39.70	32.10	31.70	30.80
1350.6	1380.6	8.51	7.31	6.81	1350.6	1380.6	0.14	0.34	0.14	1380.6	37.70	38.50	38.80	30.90	31.10	30.50
1500.0	1530.0	8.34	7.14	6.64	1500.0	1530.0	0.52	0.52	0.32	1530.0	36.50	38.80	40.40	30.10	30.90	31.20
1650.5	1680.5	7.89	6.89	6.49	1650.5	1680.5	0.80	0.60	0.40	1680.5	35.70	38.30	40.10	29.30	30.40	31.20
1800.4	1830.4	7.73	6.93	6.63	1800.4	1830.4	0.81	0.51	0.51	1830.4	36.40	38.30	39.60	28.50	29.90	31.10
1950.4	1980.4	7.72	7.02	6.72	1950.4	1980.4	0.97	0.57	0.47	1980.4	36.30	38.30	38.80	28.80	30.60	31.80
2000.0	2030.0	7.69	6.99	6.89	2000.0	2030.0	0.93	0.63	0.43	2030.0	35.90	37.80	38.10	29.00	30.40	31.70
2100.3	2130.3	7.78	7.08	6.88	2100.3	2130.3	1.17	0.57	0.47	2130.3	35.30	37.10	38.30	28.80	30.40	31.60
2400.2	2430.2	7.82	7.22	7.02	2400.2	2430.2	1.61	0.91	0.51	2430.2	33.70	33.50	33.50	28.90	30.00	31.20
2500.0	2530.0	8.06	7.46	7.16	2500.0	2530.0	1.73	0.83	0.53	2530.0	33.70	33.30	32.80	29.30	30.30	31.40
2550.2	2580.2	8.30	7.70	7.40	2550.2	2580.2	1.84	0.94	0.54	2580.2	33.20	32.30	31.60	29.60	30.70	31.50
2700.1	2730.1	9.27	8.47	8.07	2700.1	2730.1	1.70	1.00	0.60	2730.1	27.60	26.70	26.00	31.30	32.20	32.90
2850.1	2880.1	10.10	9.10	8.70	2850.1	2880.1	1.63	0.93	0.53	2880.1	29.30	29.00	29.00	32.50	33.50	34.30
3000.0	3030.0	11.22	10.02	9.32	3000.0	3030.0	1.20	0.70	0.50	3030.0	30.10	30.20	30.20	33.00	34.00	34.40

Frequency Mixer

SYM-ED7059/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+7	+10	+13		+7	+10	+13		+7	+10	+13
1.0	31.0	7.00	6.49	6.26	31.0	1.10	1.51	2.25	1.0	1.31	1.25	1.28
2.0	32.0	3.38	3.06	2.92	32.0	1.10	1.51	2.25	2.0	1.30	1.15	1.16
2.5	32.5	2.80	2.55	2.40	32.5	1.10	1.50	2.25	5.0	1.32	1.10	1.08
5.0	35.0	1.78	1.63	1.54	35.0	1.09	1.51	2.25	10.0	1.34	1.09	1.06
10.0	40.0	1.52	1.37	1.28	40.0	1.09	1.51	2.23	25.0	1.35	1.11	1.06
25.0	55.0	1.45	1.29	1.18	55.0	1.06	1.50	2.23	50.0	1.37	1.12	1.07
50.0	80.0	1.46	1.28	1.17	80.0	1.07	1.51	2.20	75.9	1.38	1.14	1.09
75.0	105.0	1.46	1.30	1.18	105.0	1.07	1.47	2.18	100.0	1.37	1.15	1.11
100.0	130.0	1.50	1.32	1.21	130.0	1.09	1.51	2.20	150.9	1.38	1.18	1.16
151.0	181.0	1.60	1.41	1.31	181.0	1.09	1.50	2.23	225.9	1.39	1.23	1.22
300.9	330.9	1.92	1.73	1.60	330.9	1.19	1.50	2.18	250.0	1.40	1.25	1.23
450.9	480.9	2.49	2.23	2.06	480.9	1.21	1.41	2.04	300.8	1.40	1.27	1.26
500.0	530.0	2.72	2.40	2.23	530.0	1.27	1.41	2.18	375.8	1.42	1.31	1.31
600.8	630.8	3.06	2.80	2.58	630.8	1.39	1.28	1.81	450.7	1.44	1.37	1.38
750.8	780.8	3.32	3.01	2.84	780.8	1.65	1.23	1.59	500.0	1.45	1.41	1.44
900.7	930.7	3.38	3.06	2.88	930.7	1.85	1.19	1.38	525.7	1.46	1.44	1.48
1000.0	1030.0	3.26	2.96	2.84	1030.0	1.96	1.21	1.31	600.6	1.50	1.53	1.58
1200.6	1230.6	3.06	2.65	2.46	1230.6	2.10	1.28	1.18	675.6	1.55	1.63	1.69
1350.6	1380.6	2.49	2.25	2.08	1380.6	2.03	1.31	1.15	750.5	1.59	1.68	1.74
1500.0	1530.0	2.18	1.94	1.80	1530.0	2.40	1.55	1.29	800.0	1.58	1.68	1.74
1650.5	1680.5	1.82	1.60	1.53	1680.5	2.52	1.75	1.51	825.5	1.58	1.68	1.76
1800.4	1830.4	1.60	1.46	1.41	1830.4	2.30	1.77	1.71	900.4	1.59	1.71	1.80
1950.4	1980.4	1.67	1.47	1.42	1980.4	2.18	1.80	1.88	975.4	1.61	1.77	1.85
2000.0	2030.0	1.67	1.51	1.45	2030.0	2.03	1.76	1.85	1000.0	1.62	1.78	1.87
2100.3	2130.3	1.76	1.54	1.46	2130.3	1.96	1.76	1.87	1050.3	1.59	1.75	1.84
2400.2	2430.2	2.01	1.81	1.66	2430.2	1.74	1.78	1.96	1125.3	1.51	1.67	1.77
2500.0	2530.0	2.10	1.85	1.73	2530.0	1.67	1.80	1.96	1200.0	1.44	1.63	1.75
2550.2	2580.2	2.20	1.97	1.84	2580.2	1.67	1.82	1.99	1275.2	1.40	1.60	1.74
2700.1	2730.1	2.61	2.40	2.23	2730.1	1.54	1.70	1.88	1350.1	1.38	1.59	1.74
2850.1	2880.1	2.76	2.55	2.40	2880.1	1.60	1.82	2.03	1425.1	1.35	1.59	1.74
3000.0	3030.0	2.88	2.68	2.55	3030.0	1.68	1.96	2.16	1500.0	1.36	1.61	1.76



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IF/RF MICROWAVE COMPONENTS



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