

Frequency Mixer

SYM-EDR5254/1

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
450.0	450.1	6.54	5.80	5.39	400.0	46.8	48.6	46.9	51.3	44.8	41.4
450.1	450.0	6.43	5.76	5.39	425.6	47.8	49.2	47.2	50.2	44.4	41.6
450.1	550.0	6.10	5.58	5.31	450.0	49.1	49.4	47.0	49.7	44.1	41.4
450.1	600.0	6.10	5.61	5.36	476.9	50.4	49.3	46.1	49.1	43.8	40.7
450.1	750.0	6.03	5.59	5.41	500.0	51.5	49.1	45.8	48.1	43.2	40.3
470.0	495.1	6.21	5.65	5.29	528.2	52.6	48.6	45.7	46.7	42.8	40.3
480.1	650.0	6.08	5.63	5.39	550.0	53.2	48.4	45.4	46.2	42.6	40.1
495.1	470.0	6.23	5.63	5.30	579.5	53.9	47.7	44.5	45.6	42.2	39.6
500.0	550.1	6.19	5.65	5.34	600.0	53.9	47.2	44.0	45.1	41.8	39.3
500.1	700.0	6.09	5.60	5.43	630.8	53.7	46.7	43.7	44.6	41.6	39.4
550.0	450.1	6.39	5.78	5.39	656.4	52.9	46.5	43.5	44.5	41.9	39.5
550.1	500.0	6.22	5.65	5.35	682.1	52.1	45.8	43.0	44.3	42.0	39.5
600.0	450.1	6.49	5.88	5.53	707.7	50.1	45.0	42.5	43.6	42.0	39.6
600.1	850.0	6.05	5.61	5.39	733.3	48.4	44.3	42.1	43.0	42.1	39.9
650.0	480.1	6.52	5.90	5.54	759.0	47.8	43.8	41.6	42.6	42.1	40.1
650.1	800.0	6.14	5.62	5.36	784.6	46.9	43.0	40.9	42.0	42.0	40.1
700.0	500.1	6.47	5.92	5.57	810.3	45.7	42.2	40.3	41.4	41.9	40.2
750.0	450.1	6.68	6.09	5.71	835.9	45.1	41.9	40.1	40.8	41.9	40.5
800.0	650.1	6.46	5.92	5.61	861.5	45.0	41.5	39.7	40.4	41.9	40.6
850.0	600.1	6.56	6.02	5.69	900.0	44.2	41.0	39.2	39.8	41.7	40.3
900.0	900.1	6.58	5.95	5.60	912.8	43.9	40.8	39.1	39.5	41.7	40.6
900.1	900.0	6.54	5.94	5.59	938.5	43.8	40.7	39.0	39.2	41.9	41.0
905.1	950.0	6.42	5.82	5.53	964.1	43.9	40.5	38.6	38.9	42.1	41.3
920.1	1000.0	6.42	5.80	5.52	1000.0	43.2	40.1	38.3	38.5	41.9	41.9
935.1	1050.0	6.52	5.82	5.51	1015.4	42.7	39.9	38.2	38.3	41.8	42.3
940.1	1100.0	6.53	5.85	5.56	1041.0	42.5	39.7	38.1	38.3	42.0	43.0
950.0	905.1	6.54	5.93	5.60	1066.7	42.6	39.5	37.8	38.5	42.3	43.3
960.1	1150.0	6.68	5.92	5.63	1100.0	41.8	39.0	37.5	38.7	42.7	43.7
970.1	1200.0	6.81	6.05	5.72	1117.9	41.3	38.7	37.3	38.9	43.0	44.3
1000.0	920.1	6.70	6.09	5.72	1143.6	41.4	38.4	37.0	39.0	43.4	44.4
1000.1	1250.0	7.12	6.30	5.90	1169.2	41.5	38.1	36.7	39.1	43.9	45.0
1020.1	1300.0	7.31	6.54	6.13	1194.9	40.9	37.8	36.5	39.5	44.6	45.3
1050.0	935.1	6.84	6.16	5.82	1220.5	40.4	37.5	36.4	39.8	45.1	46.0
1100.0	940.1	7.03	6.34	5.97	1246.2	40.4	37.2	36.0	40.1	46.0	45.8
1100.1	1400.0	7.71	6.96	6.53	1271.8	40.2	37.0	35.8	40.2	46.3	45.8
1150.0	960.1	7.23	6.45	6.05	1300.0	39.2	36.8	35.8	41.2	47.4	46.2
1200.0	970.1	7.37	6.52	6.15	1323.1	39.0	36.6	35.7	41.7	48.7	45.9
1250.0	1000.1	7.47	6.63	6.26	1348.7	39.0	36.4	35.4	42.2	50.0	45.0
1300.0	1020.1	7.54	6.70	6.29	1374.4	38.7	36.3	35.2	43.2	50.5	44.0
1400.0	1100.1	7.57	6.73	6.28	1400.0	38.0	36.1	35.2	44.3	50.9	44.4

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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
400.0	2.10	1.94	1.85	1.41	1.53	2.23	0.1	1.26	1.21	1.23
425.6	2.14	2.00	1.90	1.43	1.53	2.20	0.2	1.21	1.13	1.17
450.0	2.23	2.06	1.95	1.47	1.50	2.01	0.3	1.23	1.10	1.14
476.9	2.30	2.11	1.99	1.55	1.50	2.08	0.5	1.24	1.07	1.13
500.0	2.36	2.14	2.03	1.61	1.51	2.14	1.0	1.23	1.04	1.11
528.2	2.39	2.19	2.07	1.60	1.50	1.98	5.0	1.20	1.02	1.10
550.0	2.45	2.23	2.10	1.63	1.47	1.92	10.1	1.21	1.02	1.11
579.5	2.50	2.27	2.12	1.72	1.49	2.02	15.0	1.21	1.01	1.13
600.0	2.51	2.27	2.14	1.75	1.49	1.95	30.2	1.20	1.02	1.13
630.8	2.56	2.31	2.17	1.75	1.47	1.80	45.3	1.20	1.03	1.13
656.4	2.63	2.34	2.19	1.86	1.49	1.86	60.5	1.22	1.04	1.15
682.1	2.67	2.35	2.18	1.97	1.51	1.86	75.6	1.23	1.05	1.17
707.7	2.70	2.39	2.22	1.95	1.49	1.73	90.8	1.21	1.06	1.17
733.3	2.74	2.42	2.24	1.98	1.48	1.71	105.9	1.22	1.07	1.18
759.0	2.86	2.49	2.28	2.11	1.50	1.74	121.1	1.24	1.08	1.19
784.6	2.92	2.53	2.32	2.12	1.49	1.67	136.3	1.24	1.09	1.20
810.3	2.93	2.57	2.36	2.10	1.46	1.58	151.4	1.22	1.10	1.21
835.9	3.01	2.65	2.43	2.22	1.46	1.60	166.6	1.23	1.10	1.21
861.5	3.12	2.72	2.48	2.26	1.45	1.58	181.7	1.25	1.10	1.21
900.0	3.20	2.81	2.58	2.13	1.39	1.46	196.9	1.24	1.09	1.20
912.8	3.25	2.86	2.61	2.17	1.39	1.46	212.0	1.23	1.09	1.20
938.5	3.38	2.94	2.69	2.30	1.39	1.47	227.2	1.24	1.09	1.20
964.1	3.49	3.03	2.74	2.20	1.37	1.42	242.3	1.24	1.08	1.21
1000.0	3.56	3.12	2.84	2.11	1.33	1.36	257.5	1.22	1.07	1.20
1015.4	3.06	2.72	2.51	2.20	1.33	1.35	272.7	1.19	1.03	1.11
1041.0	3.08	2.73	2.52	2.22	1.31	1.34	287.8	1.19	1.04	1.12
1066.7	3.13	2.75	2.52	2.06	1.26	1.30	300.0	1.19	1.05	1.13
1100.0	3.11	2.72	2.48	2.04	1.23	1.30	318.1	1.18	1.05	1.15
1117.9	3.04	2.69	2.48	2.07	1.22	1.30	333.3	1.14	1.05	1.15
1143.6	3.07	2.69	2.46	1.99	1.18	1.29	348.4	1.15	1.05	1.15
1169.2	3.05	2.64	2.42	1.89	1.15	1.29	363.6	1.16	1.06	1.17
1194.9	3.04	2.62	2.40	1.90	1.14	1.34	378.8	1.15	1.06	1.18
1220.5	2.97	2.59	2.37	1.90	1.14	1.35	393.9	1.15	1.06	1.18
1246.2	2.98	2.59	2.37	1.81	1.11	1.34	409.1	1.16	1.06	1.19
1271.8	2.99	2.58	2.35	1.77	1.11	1.39	424.2	1.18	1.07	1.19
1300.0	2.93	2.55	2.33	1.77	1.13	1.46	439.4	1.17	1.07	1.20
1323.1	2.96	2.59	2.36	1.69	1.14	1.46	454.5	1.18	1.06	1.19
1348.7	2.94	2.57	2.33	1.62	1.15	1.52	469.7	1.20	1.05	1.19
1374.4	2.94	2.55	2.31	1.61	1.18	1.58	484.8	1.22	1.05	1.19
1400.0	2.90	2.55	2.31	1.56	1.21	1.61	500.0	1.20	1.04	1.18