

Frequency Mixer

SYM-EDR5120

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)		
		+4	+7	+10		+4	+7	+10	+4	+7	+10
2000.0	2530.1	8.41	7.31	6.61	2000.0	25.3	24.8	24.4	30.6	25.1	22.2
2000.1	2600.0	8.65	7.60	6.91	2038.5	27.6	27.7	27.9	33.0	27.5	24.7
2000.1	3300.0	7.76	7.23	6.73	2076.9	29.1	29.8	30.5	34.1	29.4	26.8
2100.0	2700.1	8.94	8.10	7.39	2115.4	30.1	31.0	31.9	34.8	30.6	28.3
2100.1	3100.0	8.31	7.67	7.15	2153.8	30.9	31.8	32.6	36.2	32.2	29.9
2150.1	3050.0	8.29	7.70	7.14	2192.3	30.7	31.6	32.7	35.5	32.6	30.8
2170.0	3500.1	7.24	6.79	6.35	2230.8	31.3	32.2	33.5	36.6	33.3	31.6
2170.1	2700.0	9.15	8.34	7.74	2269.2	32.8	34.0	35.3	36.6	33.6	32.1
2200.0	2850.1	8.65	7.79	7.03	2307.7	35.5	36.3	36.9	36.4	33.8	32.3
2200.1	3200.0	7.69	6.89	6.21	2346.2	37.8	38.2	38.0	36.8	34.2	32.7
2200.1	3000.0	8.61	7.91	7.31	2384.6	37.1	37.4	37.4	35.8	34.4	33.2
2250.1	2950.0	8.90	8.16	7.51	2423.1	35.3	35.6	36.3	36.6	35.1	33.7
2270.1	2800.0	8.97	7.96	7.23	2461.5	33.5	34.8	36.5	36.7	35.7	34.5
2300.0	3000.1	8.90	8.09	7.46	2500.0	33.2	34.7	36.4	37.8	36.7	35.5
2300.1	3400.0	6.89	6.43	6.00	2538.5	33.0	34.6	36.8	38.3	37.8	36.5
2300.1	3500.0	6.72	6.24	5.85	2576.9	32.9	34.8	37.1	38.0	38.5	37.9
2300.1	2900.0	9.35	8.37	7.65	2615.4	33.0	35.1	37.1	37.8	38.5	38.9
2400.0	3200.1	7.30	6.63	6.02	2653.8	33.4	35.3	36.3	37.1	37.7	38.1
2400.1	3500.0	6.33	5.87	5.51	2692.3	33.6	35.1	36.3	36.5	36.6	36.4
2500.0	3400.1	6.12	5.66	5.25	2730.8	33.4	34.0	35.5	38.1	37.9	37.2
2530.1	2000.0	6.56	6.15	6.16	2769.2	32.1	33.0	34.6	39.0	39.6	39.3
2600.0	2000.1	6.58	6.24	6.32	2807.7	31.7	32.7	34.3	39.5	40.1	40.1
2700.0	2170.1	7.06	6.74	6.65	2846.2	31.1	32.7	34.5	39.8	40.6	40.6
2700.1	2100.0	6.72	6.53	6.60	2884.6	30.6	32.5	34.5	40.2	41.1	41.0
2800.0	2270.1	7.03	6.51	6.31	2923.1	30.1	31.5	32.9	41.0	42.4	42.4
2850.1	2200.0	6.57	6.17	6.09	2961.5	29.3	31.5	34.0	41.1	42.6	42.9
2900.0	2300.1	6.63	6.11	5.89	3000.0	29.3	31.4	33.7	41.2	42.4	42.7
2950.0	2250.1	6.54	5.95	5.77	3038.5	29.0	31.3	33.6	41.0	42.3	42.8
3000.0	2200.1	6.19	5.81	5.70	3076.9	28.4	30.7	33.2	40.8	42.1	42.4
3000.1	2300.0	6.22	5.70	5.49	3115.4	28.0	30.4	33.0	41.8	42.9	42.7
3050.0	2150.1	6.32	5.79	5.64	3153.8	27.7	30.4	33.1	42.8	43.9	43.0
3100.0	2100.1	6.31	5.76	5.56	3192.3	27.6	30.4	33.3	43.8	44.8	43.6
3200.0	2200.1	5.98	5.54	5.34	3230.8	27.7	30.7	33.3	43.4	44.6	43.8
3200.1	2400.0	5.82	5.42	5.27	3269.2	27.7	30.5	33.0	41.8	43.2	42.7
3300.0	2000.1	6.68	6.18	5.93	3307.7	27.8	30.4	32.8	40.0	41.7	41.4
3400.0	2300.1	6.41	6.08	5.94	3330.0	27.5	30.1	32.8	39.0	40.6	40.4
3400.1	2500.0	6.29	6.02	5.86	3384.6	27.6	30.1	32.4	37.3	38.8	38.6
3500.0	2300.1	7.22	6.91	6.73	3423.1	27.7	30.2	32.6	36.5	38.4	38.4
3500.0	2400.1	7.11	6.84	6.72	3461.5	28.1	30.6	32.9	35.4	37.3	37.1
3500.1	2170.0	7.38	6.92	6.76	3500.0	28.9	31.6	34.0	35.4	37.5	37.5

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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)		
	+4	+7	+10	+4	+7	+10		+4	+7	+10
2000.0	3.54	3.11	2.85	5.41	2.65	1.61	300.1	2.20	1.95	1.80
2038.5	3.66	3.34	2.92	4.83	2.49	1.51	330.9	2.34	2.07	1.90
2076.9	3.83	3.40	3.07	5.05	2.55	1.57	361.6	2.52	2.21	1.98
2115.4	3.88	3.50	3.24	4.89	2.48	1.57	392.4	2.62	2.30	2.08
2153.8	4.11	3.65	3.39	4.81	2.44	1.60	423.2	2.70	2.29	2.01
2192.3	4.11	3.69	3.41	5.13	2.45	1.59	453.9	2.51	2.14	1.92
2230.8	4.44	3.83	3.47	4.83	2.34	1.56	484.7	2.63	2.28	2.06
2269.2	4.46	3.84	3.58	4.73	2.25	1.57	530.0	2.80	2.41	2.20
2307.7	4.72	4.18	3.89	4.19	2.10	1.50	546.3	2.91	2.53	2.30
2346.2	5.07	4.40	4.02	4.06	1.97	1.51	577.0	2.94	2.53	2.26
2384.6	4.99	4.35	3.92	3.62	1.89	1.51	607.8	2.86	2.48	2.19
2423.1	4.80	4.25	3.78	3.54	1.84	1.56	638.6	2.88	2.54	2.22
2461.5	4.27	3.83	3.46	3.31	1.84	1.62	669.3	2.83	2.50	2.24
2500.0	3.74	3.38	3.08	3.19	1.79	1.60	700.1	2.74	2.44	2.22
2538.5	3.29	2.95	2.72	3.13	1.74	1.63	730.9	2.69	2.41	2.20
2576.9	2.86	2.58	2.40	2.92	1.72	1.64	761.6	2.67	2.42	2.25
2615.4	2.46	2.20	2.04	2.96	1.73	1.73	792.4	2.63	2.40	2.27
2653.8	2.12	1.90	1.80	2.75	1.72	1.74	823.2	2.57	2.35	2.22
2692.3	1.84	1.70	1.65	2.90	1.88	1.98	853.9	2.49	2.33	2.23
2730.8	1.83	1.58	1.57	3.02	1.94	1.92	884.7	2.43	2.34	2.27
2769.2	2.77	3.13	3.41	2.65	1.71	1.84	915.5	1.98	1.53	1.39
2807.7	2.86	2.96	3.23	2.50	1.62	1.82	946.3	2.05	1.57	1.39
2846.2	2.63	2.83	3.06	2.32	1.59	1.80	977.0	2.02	1.60	1.40
2884.6	2.51	2.58	2.81	2.23	1.61	1.87	1007.8	2.10	1.60	1.37
2923.1	2.12	2.31	2.52	2.08	1.57	1.81	1038.6	2.06	1.62	1.39
2961.5	1.97	2.03	2.27	2.04	1.64	1.96	1069.3	2.05	1.63	1.39
3000.0	1.74	1.87	2.09	1.93	1.64	1.90	1100.1	2.09	1.63	1.41
3038.5	1.57	1.76	1.96	1.90	1.73	2.08	1130.9	2.02	1.60	1.40
3076.9	1.43	1.65	1.87	1.89	1.78	2.12	1161.6	2.12	1.71	1.46
3115.4	1.39	1.61	1.83	1.84	1.85	2.25	1192.4	2.11	1.78	1.57
3153.8	1.42	1.64	1.87	1.88	1.97	2.42	1223.2	2.14	1.85	1.65
3192.3	1.57	1.70	1.92	1.84	1.95	2.38	1253.9	2.16	1.94	1.78
3230.8	1.69	1.86	2.04	1.85	2.04	2.58	1284.7	2.14	1.96	1.86
3269.2	1.93	2.24	2.41	1.69	1.92	2.44	1330.0	2.14	1.95	1.89
3307.7	2.34	2.69	2.83	1.59	1.96	2.70	1346.3	2.06	1.96	1.93
3330.0	2.57	2.93	3.16	1.53	1.94	2.66	1377.0	2.12	2.00	2.00
3384.6	2.90	3.30	3.53	1.45	1.96	2.81	1407.8	2.23	2.12	2.11
3423.1	3.16	3.56	3.78	1.39	2.00	2.77	1438.6	2.29	2.19	2.19
3461.5	3.44	3.81	3.94	1.38	2.03	2.84	1469.3	2.36	2.26	2.26
3500.0	3.33	3.64	3.76	1.40	2.05	2.93	1500.1	2.42	2.33	2.32