

Frequency Mixer

SYM-EDR5088/4

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
2821.5	3228.7	5.77	5.45	5.31	2800.1	30.5	30.8	30.0	33.0	33.1	32.9
2864.4	3285.8	5.84	5.47	5.32	2821.5	30.6	30.6	29.8	33.6	33.4	33.1
2907.2	3343.0	5.84	5.44	5.27	2843.0	30.8	30.8	30.0	34.3	34.0	33.7
2950.0	3400.1	5.83	5.41	5.26	2864.4	31.0	31.1	30.4	34.9	34.7	34.4
3000.0	3350.1	5.99	5.65	5.47	2885.8	31.0	31.2	30.5	35.2	35.1	34.9
3000.0	3450.1	5.92	5.65	5.38	2907.2	30.9	31.1	30.2	35.2	35.1	34.8
3020.0	3450.1	5.95	5.58	5.41	2928.7	31.3	31.3	30.2	35.3	35.4	35.0
3020.0	3470.1	5.96	5.57	5.38	2950.1	31.5	31.7	30.6	35.3	35.6	35.3
3040.0	3450.1	5.99	5.64	5.47	3000.1	32.0	32.3	31.3	35.0	35.5	35.7
3057.2	3421.5	6.12	5.80	5.58	3014.4	32.0	32.3	31.3	34.9	35.4	35.5
3060.0	3450.1	6.03	5.66	5.47	3028.7	32.2	32.5	31.5	34.8	35.2	35.1
3060.0	3480.1	6.03	5.65	5.44	3043.0	32.4	32.9	31.8	34.8	35.3	35.1
3080.0	3450.1	6.14	5.79	5.62	3057.2	32.7	33.2	32.4	34.7	35.2	35.2
3100.0	3450.1	6.16	5.81	5.66	3071.5	32.7	33.4	32.7	34.3	35.0	35.1
3100.0	3500.1	6.12	5.72	5.53	3085.8	32.7	33.5	32.9	34.0	34.7	34.9
3100.0	3520.1	6.12	5.70	5.53	3100.1	32.8	33.6	32.9	33.6	34.3	34.6
3100.0	3540.1	6.11	5.69	5.50	3150.1	33.1	34.3	33.8	33.0	33.8	34.0
3100.0	3550.1	6.11	5.70	5.53	3181.4	33.0	34.3	34.1	32.6	33.5	34.1
3114.3	3492.9	6.29	5.90	5.61	3212.6	32.7	34.1	33.7	32.2	32.9	33.4
3171.4	3564.4	6.35	5.97	5.64	3243.9	32.7	34.3	34.1	32.2	33.0	33.5
3228.6	2821.5	5.56	5.43	5.24	3275.1	32.5	34.3	34.4	32.1	33.0	34.0
3285.7	2864.4	5.74	5.55	5.38	3306.4	32.4	34.1	34.2	31.9	32.9	33.6
3342.9	2907.2	5.76	5.56	5.37	3337.6	32.3	34.1	34.3	32.0	33.0	33.5
3350.0	3000.1	5.97	5.75	5.54	3368.9	32.2	34.2	34.6	32.3	33.3	34.1
3400.0	2950.1	5.78	5.55	5.36	3400.1	31.9	33.9	34.5	32.3	33.1	33.9
3421.5	3057.2	5.95	5.63	5.47	3450.1	31.8	33.9	34.7	32.4	33.5	34.3
3450.0	3000.1	5.87	5.62	5.48	3464.4	31.9	33.9	34.7	32.6	33.7	34.7
3450.0	3100.1	6.03	5.71	5.52	3478.7	31.8	33.9	34.8	32.6	33.8	34.8
3450.0	3020.1	5.88	5.56	5.44	3493.0	31.7	33.8	34.7	32.6	33.7	34.5
3450.0	3040.1	5.88	5.59	5.42	3507.2	31.7	33.8	34.6	32.6	33.7	34.5
3450.0	3060.1	5.88	5.59	5.49	3521.5	31.8	33.8	34.6	32.7	33.8	34.5
3450.0	3080.1	5.96	5.63	5.47	3535.8	31.8	33.9	34.7	32.8	33.9	34.7
3470.0	3020.1	5.79	5.55	5.41	3550.1	31.9	34.0	34.8	32.8	34.0	35.0
3480.0	3050.1	5.81	5.54	5.37	3600.1	31.8	34.0	34.8	32.7	34.0	34.9
3492.9	3114.4	5.97	5.60	5.51	3633.4	32.0	34.1	34.9	32.7	34.1	35.0
3500.0	3100.1	5.89	5.68	5.45	3666.8	32.1	34.3	35.3	32.5	34.0	35.2
3520.0	3100.1	5.87	5.56	5.41	3700.1	32.2	34.4	35.4	32.6	33.9	34.9
3540.0	3100.1	5.83	5.51	5.40	3733.4	31.7	34.2	35.5	33.6	34.7	35.5
3550.0	3100.1	5.85	5.59	5.44	3766.8	30.2	32.9	34.9	36.5	37.0	37.4
3564.4	3171.5	5.97	5.57	5.48	3800.1	29.4	32.2	34.3	39.6	39.4	39.1

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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
2800.1	1.96	1.79	1.67	1.47	2.10	2.95	100.1	6.14	6.07	6.02
2821.5	1.94	1.77	1.66	1.41	1.97	2.72	116.5	5.00	4.89	4.88
2843.0	1.91	1.75	1.64	1.41	1.94	2.60	132.9	4.29	4.24	4.16
2864.4	1.89	1.72	1.62	1.47	2.15	3.05	149.4	3.77	3.72	3.68
2885.8	1.84	1.69	1.60	1.50	2.22	3.32	165.8	3.36	3.31	3.27
2907.2	1.82	1.67	1.58	1.44	2.07	2.95	182.2	3.04	3.01	2.99
2928.7	1.76	1.63	1.54	1.43	2.00	2.69	198.6	2.79	2.78	2.75
2950.1	1.70	1.59	1.52	1.52	2.15	3.07	215.1	2.58	2.55	2.55
3000.1	1.54	1.47	1.44	1.44	2.05	2.83	231.5	2.41	2.40	2.40
3014.4	1.48	1.44	1.42	1.45	1.99	2.63	247.9	2.27	2.26	2.26
3028.7	1.42	1.40	1.39	1.47	2.05	2.75	264.3	2.15	2.14	2.14
3043.0	1.35	1.35	1.37	1.52	2.19	3.03	280.7	2.05	2.04	2.05
3057.2	1.28	1.31	1.36	1.52	2.23	3.21	297.2	1.95	1.94	1.96
3071.5	1.21	1.27	1.35	1.52	2.17	3.03	313.6	1.88	1.88	1.89
3085.8	1.14	1.25	1.35	1.46	2.03	2.69	330.0	1.81	1.81	1.83
3100.1	1.10	1.24	1.37	1.45	1.97	2.50	350.0	1.72	1.73	1.75
3150.1	1.28	1.32	1.39	1.55	2.22	3.05	361.1	1.69	1.69	1.72
3181.4	1.38	1.39	1.42	1.46	1.94	2.48	372.2	1.64	1.66	1.68
3212.6	1.47	1.45	1.46	1.51	2.05	2.65	383.3	1.61	1.62	1.64
3243.9	1.52	1.49	1.48	1.59	2.18	2.96	394.4	1.57	1.59	1.61
3275.1	1.58	1.53	1.51	1.53	1.98	2.53	405.6	1.54	1.56	1.59
3306.4	1.62	1.57	1.53	1.65	2.24	2.91	416.7	1.52	1.53	1.56
3337.6	1.67	1.61	1.56	1.69	2.30	3.05	427.8	1.49	1.50	1.53
3368.9	1.72	1.65	1.59	1.65	2.15	2.70	438.9	1.46	1.48	1.51
3400.1	1.77	1.69	1.62	1.76	2.41	3.20	450.0	1.44	1.45	1.49
3450.1	1.83	1.74	1.67	1.73	2.27	2.80	480.0	1.37	1.39	1.42
3464.4	1.83	1.74	1.66	1.74	2.30	2.86	488.6	1.36	1.37	1.40
3478.7	1.84	1.75	1.67	1.81	2.40	3.05	497.1	1.35	1.36	1.39
3493.0	1.85	1.75	1.67	1.87	2.50	3.28	505.7	1.33	1.34	1.37
3507.2	1.85	1.75	1.68	1.93	2.56	3.31	514.3	1.32	1.32	1.36
3521.5	1.85	1.75	1.68	1.88	2.44	3.10	522.9	1.30	1.31	1.34
3535.8	1.85	1.75	1.68	1.83	2.34	2.83	531.4	1.29	1.30	1.32
3550.1	1.84	1.75	1.67	1.81	2.31	2.79	540.0	1.28	1.28	1.31
3600.1	1.78	1.70	1.64	1.95	2.60	3.30	548.6	1.27	1.27	1.30
3633.4	1.75	1.67	1.62	1.86	2.34	2.86	557.1	1.26	1.26	1.28
3666.8	1.71	1.64	1.59	2.01	2.58	3.24	565.7	1.26	1.25	1.27
3700.1	1.65	1.59	1.56	1.98	2.50	3.16	574.3	1.25	1.24	1.26
3733.4	1.61	1.57	1.54	1.91	2.43	3.00	582.9	1.24	1.23	1.25
3766.8	1.57	1.53	1.52	1.90	2.45	3.13	591.4	1.24	1.22	1.24
3800.1	1.54	1.51	1.50	1.80	2.32	2.98	600.0	1.23	1.21	1.22