

Frequency Mixer

SYM-EDR5161/1

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)		
		+10	+13	+16		+10	+13	+16	+10	+13	+16
3000.0	3450.0	6.86	6.51	6.37	2800.0	27.5	27.0	27.2	42.6	37.4	33.9
3000.1	3350.1	6.79	6.44	6.41	2816.7	27.3	26.8	27.1	42.5	37.4	33.9
3020.0	3450.0	6.98	6.49	6.32	2833.3	27.1	26.7	26.9	42.4	37.4	33.8
3020.0	3470.0	7.01	6.52	6.33	2850.0	26.9	26.5	26.8	42.4	37.5	33.6
3036.5	3395.6	6.76	6.42	6.30	2866.7	26.9	26.4	26.7	42.4	37.5	33.5
3040.0	3450.0	6.97	6.48	6.34	2883.3	26.8	26.4	26.7	42.3	38.1	33.8
3050.0	3480.0	6.99	6.49	6.32	2900.0	26.6	26.5	26.6	42.2	38.3	33.9
3060.0	3450.0	6.98	6.49	6.34	2916.7	26.4	26.4	26.5	42.0	38.4	33.8
3072.8	3441.0	6.80	6.46	6.32	2933.3	26.3	26.2	26.3	41.9	38.3	33.7
3080.0	3450.0	6.92	6.45	6.29	2950.0	26.2	26.1	26.1	41.8	38.2	33.4
3100.0	3450.0	6.70	6.36	6.21	3000.0	26.1	26.0	25.9	41.5	39.5	33.9
3100.0	3500.0	7.02	6.51	6.33	3011.1	26.0	25.8	25.8	41.5	39.6	33.9
3100.0	3520.0	7.00	6.50	6.32	3022.2	25.9	25.7	25.7	41.4	39.7	33.9
3100.0	3540.0	6.98	6.46	6.28	3033.3	25.9	25.7	25.6	41.4	39.6	33.9
3100.0	3550.0	7.00	6.50	6.31	3044.4	25.8	25.6	25.5	41.4	39.8	33.7
3109.2	3486.5	6.85	6.47	6.33	3055.6	25.8	25.5	25.4	41.2	39.8	33.8
3145.6	3531.9	6.82	6.44	6.29	3066.7	25.8	25.4	25.3	40.8	39.9	33.9
3181.9	3577.4	6.89	6.49	6.31	3077.8	25.8	25.5	25.3	40.7	40.5	34.2
3218.3	2813.7	6.61	6.06	5.87	3088.9	25.8	25.5	25.3	40.4	40.7	34.4
3254.6	2841.0	6.53	6.00	5.81	3100.0	25.8	25.5	25.3	39.9	40.8	34.7
3291.0	2868.3	6.40	5.88	5.74	3150.0	25.5	25.2	24.9	39.0	39.9	34.8
3327.4	2895.6	6.35	5.84	5.69	3184.2	25.5	25.2	24.9	38.4	39.3	35.6
3363.7	2922.8	6.25	5.75	5.62	3218.4	25.3	25.2	25.0	37.8	38.5	35.8
3400.1	2950.1	6.17	5.68	5.57	3252.6	25.1	25.0	24.8	37.3	37.5	35.5
3450.1	3000.1	6.11	5.63	5.55	3286.8	25.1	25.1	25.1	36.9	36.8	35.6
3450.1	3100.1	6.01	5.53	5.43	3321.1	25.0	25.0	25.1	36.3	36.0	34.9
3450.1	3020.1	6.10	5.67	5.55	3355.3	25.0	24.9	25.0	35.9	35.1	34.0
3450.1	3040.1	6.08	5.64	5.57	3389.5	25.1	25.1	25.3	35.5	34.7	33.7
3450.1	3060.1	6.08	5.63	5.56	3423.7	25.0	25.1	25.3	34.9	33.9	33.0
3450.1	3080.1	6.07	5.61	5.53	3450.0	25.1	25.2	25.4	34.4	33.4	32.5
3470.1	3020.1	6.07	5.61	5.51	3492.1	25.1	25.4	25.9	33.5	32.5	31.8
3480.1	3050.1	5.99	5.58	5.51	3526.3	25.2	25.6	26.1	32.4	31.4	30.5
3500.1	3100.1	6.07	5.61	5.55	3550.0	25.4	25.9	26.4	31.6	30.4	29.7
3520.1	3100.1	6.04	5.59	5.50	3594.7	25.9	26.7	27.4	29.8	28.6	27.8
3540.1	3100.1	6.04	5.65	5.56	3628.9	26.5	27.6	28.4	27.6	26.2	25.6
3550.1	3100.1	6.02	5.62	5.54	3663.2	27.2	28.6	30.1	25.2	24.0	23.4
3600.1	3250.1	6.03	5.57	5.41	3697.4	27.4	29.3	31.3	22.4	21.3	20.7
3633.4	3250.1	6.11	5.64	5.48	3731.6	26.0	27.2	28.7	19.7	18.6	18.1
3666.8	3250.1	6.10	5.63	5.49	3765.8	24.0	24.9	25.9	17.7	16.9	16.4
3700.1	3250.1	6.05	5.60	5.45	3800.0	22.9	23.9	25.3	17.2	16.6	16.3

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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)		
	+10	+13	+16	+10	+13	+16		+10	+13	+16
2800.0	3.11	2.95	2.85	1.14	1.40	2.11	100.0	5.51	5.46	5.06
2816.7	3.12	2.97	2.88	1.11	1.37	1.98	115.7	4.82	4.70	4.48
2833.3	3.14	2.99	2.91	1.11	1.40	2.04	131.4	4.42	4.21	4.02
2850.0	3.14	3.01	2.92	1.13	1.45	2.15	147.1	3.87	3.69	3.48
2866.7	3.10	3.00	2.94	1.10	1.45	2.07	162.9	3.51	3.31	3.26
2883.3	3.09	2.99	2.95	1.09	1.44	2.04	178.6	3.20	3.04	3.00
2900.0	3.09	3.00	2.97	1.10	1.46	2.07	194.3	2.93	2.81	2.74
2916.7	3.07	3.00	2.97	1.10	1.47	2.14	210.0	2.76	2.65	2.59
2933.3	3.06	3.00	2.99	1.11	1.52	2.20	225.7	2.54	2.43	2.42
2950.0	3.06	2.98	2.97	1.11	1.54	2.32	241.4	2.39	2.30	2.28
3000.0	2.94	2.91	2.95	1.12	1.57	2.38	257.1	2.28	2.20	2.17
3011.1	2.90	2.87	2.93	1.11	1.58	2.36	272.9	2.15	2.08	2.05
3022.2	2.82	2.82	2.89	1.11	1.56	2.32	288.6	2.04	1.99	1.96
3033.3	2.74	2.73	2.83	1.11	1.55	2.23	304.3	1.97	1.91	1.89
3044.4	2.66	2.67	2.76	1.12	1.53	2.18	320.0	1.88	1.82	1.81
3055.6	2.56	2.59	2.67	1.12	1.54	2.15	350.0	1.78	1.71	1.69
3066.7	2.43	2.48	2.57	1.17	1.70	2.56	361.1	1.73	1.66	1.65
3077.8	2.31	2.31	2.41	1.21	1.71	2.45	372.2	1.70	1.63	1.61
3088.9	2.16	2.17	2.25	1.26	1.70	2.36	383.3	1.66	1.59	1.58
3100.0	1.99	2.00	2.05	1.36	1.93	2.79	394.4	1.63	1.56	1.54
3150.0	1.57	1.46	1.43	1.39	1.89	2.64	405.6	1.61	1.53	1.51
3184.2	1.51	1.36	1.29	1.38	1.73	2.25	416.7	1.57	1.50	1.48
3218.4	1.52	1.36	1.28	1.48	1.90	2.60	427.8	1.56	1.48	1.45
3252.6	1.57	1.41	1.31	1.47	1.85	2.47	438.9	1.54	1.45	1.42
3286.8	1.63	1.46	1.36	1.45	1.80	2.33	450.0	1.52	1.43	1.40
3321.1	1.69	1.52	1.42	1.43	1.74	2.24	470.0	1.50	1.40	1.36
3355.3	1.75	1.57	1.47	1.42	1.72	2.18	486.4	1.49	1.37	1.33
3389.5	1.81	1.62	1.51	1.44	1.75	2.25	502.9	1.47	1.35	1.29
3423.7	1.85	1.66	1.55	1.46	1.81	2.33	519.3	1.48	1.33	1.27
3450.0	1.87	1.68	1.57	1.50	1.86	2.47	535.7	1.47	1.32	1.24
3492.1	1.90	1.70	1.59	1.53	1.93	2.58	552.1	1.48	1.31	1.23
3526.3	1.89	1.71	1.59	1.55	1.94	2.56	568.6	1.49	1.31	1.21
3550.0	1.90	1.71	1.59	1.55	1.90	2.48	585.0	1.50	1.31	1.20
3594.7	1.86	1.68	1.57	1.55	1.86	2.36	601.4	1.53	1.32	1.20
3628.9	1.84	1.65	1.55	1.64	1.93	2.51	617.9	1.55	1.34	1.20
3663.2	1.81	1.64	1.54	1.69	2.00	2.59	634.3	1.58	1.35	1.20
3697.4	1.80	1.63	1.53	1.71	2.01	2.57	650.7	1.61	1.38	1.22
3731.6	1.80	1.63	1.52	1.72	1.98	2.47	667.1	1.63	1.40	1.24
3765.8	1.80	1.63	1.52	1.70	1.91	2.35	683.6	1.68	1.43	1.26
3800.0	1.80	1.62	1.51	1.69	1.88	2.28	700.0	1.71	1.47	1.29