

Frequency Mixer

SYM-ED7867/1

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
1500.0	1500.4	6.72	6.12	5.92	1500.4	39.5	38.3	37.6	30.3	31.0	31.4
1575.0	1575.4	6.77	6.27	5.97	1575.4	38.6	37.9	37.3	29.5	30.2	30.5
1650.0	1650.4	6.94	6.34	6.14	1650.4	37.7	36.9	36.6	28.9	29.7	29.8
1725.0	1725.4	7.04	6.44	6.24	1725.4	36.9	36.0	36.0	28.1	28.9	29.2
1800.0	1800.4	7.16	6.66	6.46	1800.4	37.2	35.4	35.2	27.6	27.9	28.4
1875.0	1875.4	7.18	6.68	6.38	1875.4	37.4	35.1	34.8	28.3	28.3	28.5
1950.0	1950.4	7.19	6.59	6.39	1950.4	38.7	35.3	34.3	28.3	28.6	28.7
2025.0	2025.4	7.24	6.64	6.44	2025.4	37.1	33.7	33.0	27.6	28.0	28.3
2090.0	2090.4	7.31	6.81	6.61	2090.4	34.1	32.3	31.8	27.0	27.5	27.8
2100.0	2100.4	7.38	6.88	6.58	2100.4	33.8	32.2	31.7	27.0	27.4	27.6
2120.0	2120.4	7.56	6.86	6.56	2120.4	33.8	32.1	31.8	27.1	27.5	27.7
2140.0	2140.4	7.56	6.86	6.56	2140.4	33.3	32.0	31.7	27.0	27.4	27.8
2160.0	2160.4	7.46	6.86	6.66	2160.4	32.6	31.7	31.5	26.8	27.3	27.7
2175.0	2175.4	7.44	6.94	6.64	2175.4	32.5	31.4	31.2	26.6	27.0	27.4
2180.0	2180.4	7.51	6.91	6.61	2180.4	32.3	31.4	31.1	26.7	27.0	27.3
2190.0	2190.4	7.46	6.96	6.66	2190.4	32.4	31.4	31.2	26.8	26.9	27.3
2200.0	2200.4	7.46	6.96	6.76	2200.4	32.4	31.4	31.1	26.9	27.1	27.4
2250.0	2250.4	7.50	7.00	6.70	2250.4	31.2	30.9	31.0	26.6	26.9	27.3
2325.0	2325.4	7.81	7.21	6.81	2325.4	29.9	30.2	30.6	26.5	27.0	27.3
2400.0	2400.4	8.02	7.22	6.82	2400.4	29.3	29.9	30.5	26.0	26.8	27.3
2475.0	2475.4	8.13	7.33	7.03	2475.4	29.1	30.0	30.8	25.6	26.5	27.1
2550.0	2550.4	8.35	7.55	7.25	2550.4	28.7	30.3	31.6	25.4	26.3	27.1
2625.0	2625.4	8.50	7.80	7.40	2625.4	28.7	30.5	32.2	25.3	26.0	27.0
2700.0	2700.4	8.91	8.11	7.71	2700.4	29.1	30.7	32.4	25.5	26.5	27.3
2775.0	2775.4	9.19	8.39	7.99	2775.4	29.8	31.2	32.6	25.4	26.5	27.4
2850.0	2850.4	9.27	8.57	8.07	2850.4	30.1	31.6	32.9	25.3	26.4	27.3
2925.0	2925.4	9.11	8.51	8.11	2925.4	30.3	31.9	32.9	25.0	26.2	27.1
3000.0	3000.4	9.27	8.57	8.07	3000.4	30.4	32.1	33.0	24.9	26.1	27.0

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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
1500.4	2.49	2.04	1.85	1.74	1.26	1.70	0.1	1.65	1.89	2.14
1575.4	2.27	1.89	1.68	1.59	1.20	1.59	0.2	1.54	1.62	1.73
1650.4	2.08	1.75	1.56	1.54	1.16	1.54	0.3	1.51	1.50	1.54
1725.4	1.97	1.67	1.49	1.58	1.08	1.54	0.4	1.48	1.41	1.41
1800.4	1.82	1.56	1.41	1.65	1.10	1.57	0.4	1.48	1.39	1.39
1875.4	1.69	1.46	1.34	1.66	1.24	1.66	0.5	1.49	1.38	1.37
1950.4	1.59	1.41	1.33	1.70	1.35	1.71	0.8	1.50	1.32	1.27
2025.4	1.55	1.41	1.35	1.64	1.39	1.78	10.0	1.56	1.30	1.17
2090.4	1.55	1.43	1.36	1.57	1.47	1.87	25.0	1.53	1.29	1.16
2100.4	1.56	1.44	1.37	1.53	1.46	1.87	50.0	1.53	1.29	1.16
2120.4	1.58	1.43	1.36	1.54	1.46	1.87	75.1	1.52	1.28	1.16
2140.4	1.56	1.42	1.34	1.59	1.50	1.92	100.2	1.53	1.28	1.16
2160.4	1.53	1.39	1.32	1.53	1.54	1.99	125.1	1.52	1.28	1.16
2175.4	1.50	1.37	1.29	1.45	1.51	2.03	150.1	1.51	1.28	1.16
2180.4	1.50	1.36	1.29	1.44	1.52	1.99	175.1	1.51	1.28	1.16
2190.4	1.49	1.36	1.28	1.41	1.48	1.94	200.1	1.51	1.28	1.16
2200.4	1.47	1.34	1.27	1.40	1.48	1.89	225.1	1.49	1.27	1.16
2250.4	1.43	1.31	1.23	1.40	1.57	2.08	250.1	1.49	1.27	1.16
2325.4	1.46	1.33	1.25	1.36	1.57	2.08	275.0	1.48	1.26	1.15
2400.4	1.48	1.36	1.28	1.29	1.58	2.04	300.0	1.46	1.25	1.14
2475.4	1.54	1.43	1.36	1.23	1.57	1.97	325.0	1.45	1.24	1.13
2550.4	1.69	1.59	1.53	1.20	1.53	1.88	350.0	1.44	1.23	1.12
2625.4	1.87	1.78	1.74	1.16	1.52	1.89	375.0	1.41	1.21	1.10
2700.4	2.10	2.01	1.96	1.16	1.53	1.91	400.0	1.39	1.19	1.08
2775.4	2.37	2.27	2.25	1.20	1.61	2.01	425.0	1.37	1.17	1.06
2850.4	2.76	2.65	2.61	1.30	1.75	2.18	450.0	1.33	1.14	1.04
2925.4	3.11	3.06	2.92	1.44	1.91	2.35	475.0	1.30	1.11	1.03
3000.4	3.38	3.16	3.11	1.54	2.01	2.43	500.0	1.26	1.08	1.04