

Frequency Mixer

SCM-2500LH+

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)		
		+7	+10	+13		+7	+10	+13	+7	+10	+13
500.0	530.0	6.31	5.89	5.64	500.0	50.32	65.85	55.19	31.90	31.29	30.70
622.5	652.5	5.75	5.56	5.46	622.5	53.94	55.50	46.66	30.48	29.50	28.62
744.9	774.9	5.86	5.48	5.24	744.9	42.25	50.54	62.54	27.79	27.28	26.98
867.4	897.4	5.87	5.13	4.78	867.4	36.62	42.15	48.57	26.00	25.72	25.43
1000.0	1030.0	6.33	5.61	5.16	1000.0	33.64	37.79	43.07	23.22	23.23	23.29
1112.2	1142.2	5.97	5.70	5.46	1112.2	33.03	35.91	39.05	20.89	20.77	20.60
1250.0	1280.0	5.68	5.48	5.33	1250.0	33.41	36.78	40.00	19.21	19.31	19.27
1357.1	1387.1	5.82	5.65	5.55	1357.1	34.51	38.10	41.00	19.45	20.17	20.60
1479.6	1509.6	6.05	5.62	5.53	1479.6	33.57	36.72	40.94	20.68	22.37	24.06
1520.4	1490.4	6.26	5.85	5.73	1520.4	33.77	37.24	42.27	21.08	23.28	25.69
1642.9	1612.9	7.03	6.30	6.09	1642.9	33.84	36.49	40.00	22.66	25.51	28.47
1765.3	1735.3	7.39	6.79	6.41	1765.3	34.23	36.28	38.37	23.26	24.69	24.70
1887.8	1857.8	7.79	7.25	6.96	1887.8	33.22	35.20	36.85	21.96	21.72	21.07
2010.2	1980.2	8.02	7.54	7.33	2010.2	32.71	34.85	37.04	20.38	19.66	19.04
2051.0	2021.0	7.91	7.48	7.30	2051.0	32.61	34.66	36.76	20.18	19.44	18.85
2173.5	2143.5	7.79	7.34	7.10	2173.5	34.23	35.19	36.49	18.91	18.10	17.51
2295.9	2265.9	7.63	7.20	6.95	2295.9	35.01	37.02	38.88	18.17	17.55	17.08
2377.6	2347.6	7.19	6.78	6.61	2377.6	32.07	34.65	37.61	17.50	17.01	16.62
2459.2	2429.2	7.36	6.65	6.19	2459.2	30.88	32.10	34.23	16.49	16.12	15.82
2500.0	2470.0	7.42	6.69	6.18	2500.0	31.16	32.24	33.95	15.78	15.44	15.24



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RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)			LO/RF (MHz)	max. DC output (mV)	DC Offset (mV)
	@LO (dBm)			@LO (dBm)				@LO (dBm)			@LO (dBm)		
	+7	+10	+13	+7	+10	+13		+7	+10	+13	+10		
500.0	4.43	3.95	3.64	2.02	2.63	3.32	1.0	1.08	1.17	1.40	500.00	-250.9	1.88
622.5	3.25	2.87	2.58	1.96	2.52	3.15	25.8	1.06	1.23	1.48	605.26	-264.3	-0.91
744.9	2.59	2.24	1.98	2.09	2.54	3.10	50.5	1.16	1.32	1.57	710.53	-226.2	0.56
867.4	2.48	2.22	1.99	2.34	2.62	3.07	75.3	1.27	1.38	1.58	815.79	-188.4	4.62
1000.0	2.74	2.74	2.66	2.50	2.67	2.99	100.0	1.33	1.41	1.59	921.05	-171.7	4.07
1112.2	2.81	2.97	3.04	2.52	2.54	2.79	120.0	1.41	1.48	1.65	1026.32	-188.4	3.27
1250.0	2.94	3.08	3.13	2.62	2.36	2.40	145.0	1.45	1.53	1.69	1131.58	-202.5	-0.19
1357.1	3.21	3.27	3.26	2.80	2.32	2.17	170.0	1.55	1.64	1.80	1236.84	-198.1	-1.51
1479.6	3.60	3.56	3.51	2.94	2.18	1.83	195.0	1.64	1.73	1.86	1342.11	-194.4	-2.40
1520.4	3.84	3.76	3.69	2.83	2.07	1.69	220.0	1.68	1.76	1.87	1447.37	-205.6	-2.02
1642.9	4.61	4.39	4.26	2.51	1.78	1.37	250.0	1.75	1.88	2.02	1552.63	-191.5	-2.36
1765.3	5.43	5.09	4.90	2.09	1.61	1.42	282.5	1.96	2.08	2.19	1657.89	-143.3	-2.01
1887.8	6.13	5.70	5.53	1.86	1.69	1.76	315.0	1.92	2.00	2.07	1763.16	-121.7	-1.36
2010.2	6.59	5.94	5.72	1.85	1.99	2.24	347.5	2.01	2.13	2.21	1868.42	-96.2	-0.68
2051.0	6.59	5.96	5.61	1.90	2.11	2.38	380.0	2.17	2.25	2.29	1973.68	-68.2	-0.45
2173.5	6.64	5.72	5.23	1.97	2.33	2.71	400.0	2.09	2.13	2.16	2078.95	-38.2	4.52
2295.9	6.85	5.89	5.15	2.33	2.75	3.19	425.0	2.02	2.08	2.11	2184.21	-10.2	3.48
2377.6	6.01	5.28	4.64	2.55	2.94	3.35	450.0	2.07	2.15	2.17	2289.47	3.0	4.41
2459.2	5.13	4.51	4.01	2.84	3.17	3.56	475.0	2.09	2.16	2.15	2394.74	4.1	6.89
2500.0	4.74	4.25	3.73	3.02	3.32	3.68	500.0	2.03	2.07	2.05	2500.00	-31.2	7.09