

Frequency Mixer

SCM-2LH

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
5.0	35.0	7.20	6.68	6.43	5.0	57.1	59.0	60.2	53.7	53.8	53.8
10.1	40.1	7.10	6.56	6.32	10.1	57.0	58.8	60.0	53.4	53.6	53.6
20.4	50.4	7.12	6.56	6.31	20.4	57.2	59.0	60.2	53.9	54.1	54.2
35.0	65.0	7.02	6.51	6.27	35.0	56.6	58.5	59.7	53.9	54.1	54.3
54.0	84.0	7.05	6.48	6.26	54.0	55.7	57.4	58.7	53.9	54.1	54.1
60.1	90.1	7.02	6.46	6.24	60.1	55.4	57.0	58.3	54.0	54.1	54.1
83.2	113.2	7.01	6.46	6.25	83.2	54.3	55.9	57.2	54.4	54.6	54.6
115.0	85.0	6.96	6.41	6.18	115.0	52.6	54.3	55.7	55.3	56.1	55.8
159.1	129.1	6.83	6.45	6.17	159.1	50.5	52.2	53.4	58.4	57.7	56.3
220.1	190.1	6.66	6.42	6.18	220.1	48.0	49.6	51.2	65.8	61.1	58.5
273.2	243.2	6.68	6.47	6.23	273.2	46.1	48.0	49.5	77.5	63.6	59.7
339.2	309.2	6.78	6.57	6.31	339.2	44.3	46.1	47.7	57.6	57.8	58.5
421.0	391.0	6.98	6.78	6.48	421.0	42.8	44.7	46.5	55.6	61.4	58.6
500.0	470.0	7.21	6.83	6.40	500.0	40.9	42.9	44.8	50.2	49.6	50.1
600.0	570.0	7.52	7.28	7.05	600.0	39.7	41.9	44.0	48.5	46.9	45.3
700.0	670.0	8.08	7.19	6.76	700.0	40.3	42.5	44.1	44.7	45.0	41.3
760.0	730.0	9.09	7.62	6.79	760.0	38.6	41.2	43.2	41.3	41.5	40.2
850.0	820.0	9.50	8.58	7.48	850.0	36.3	38.4	40.5	35.5	35.8	35.6
897.5	867.5	9.32	8.64	7.98	897.5	35.6	37.7	39.8	33.3	33.7	34.0
1000.0	970.0	9.21	8.57	8.03	1000.0	33.7	36.3	39.3	29.1	30.1	30.7

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IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant
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Typical Performance Data

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		
5.0	1.75	1.66	1.57	1.71	2.41	3.39	0.3	2.83	2.44	2.08	5.0	-342.1	1.24
10.1	1.77	1.68	1.58	1.52	2.23	3.21	0.7	2.84	2.45	2.09	10.1	-346.8	1.25
20.4	1.79	1.70	1.60	1.51	2.24	3.22	1.2	2.85	2.45	2.09	20.0	-345.5	1.24
35.0	1.81	1.72	1.62	1.50	2.23	3.18	1.6	2.85	2.45	2.09	50.0	-335.2	1.18
54.0	1.82	1.73	1.64	1.48	2.17	3.12	2.0	2.85	2.45	2.09	100.0	-345.5	1.15
60.1	1.82	1.73	1.64	1.47	2.16	3.11	3.0	2.86	2.45	2.09	150.0	-355.0	1.04
83.2	1.81	1.72	1.62	1.46	2.12	3.10	4.8	2.86	2.46	2.09	200.0	-351.4	0.95
115.0	1.85	1.76	1.66	1.47	2.13	3.08	6.5	2.87	2.45	2.09	250.0	-370.1	0.91
159.1	1.89	1.80	1.71	1.45	2.06	3.03	8.3	2.90	2.47	2.10	300.0	-369.3	0.53
220.1	1.93	1.85	1.76	1.51	2.09	3.04	10.0	2.89	2.47	2.10	350.0	-306.7	0.48
273.2	1.94	1.86	1.76	1.61	2.18	3.14	30.0	2.80	2.39	2.03	400.0	-321.7	0.69
339.2	2.00	1.91	1.82	1.71	2.21	3.14	60.0	2.78	2.37	2.00	450.0	-318.0	0.70
421.0	1.96	1.89	1.79	1.88	2.29	3.16	90.0	2.91	2.49	2.10	500.0	-308.6	0.33
500.0	1.89	1.81	1.71	2.02	2.40	3.29	120.0	2.90	2.48	2.10	550.0	-312.7	-0.04
600.0	1.76	1.68	1.58	2.21	2.45	3.17	150.0	2.80	2.38	2.01	600.0	-310.4	-0.30
700.0	1.59	1.51	1.41	2.53	2.78	3.44	200.0	2.98	2.55	2.15	650.0	-307.9	0.54
760.0	1.47	1.38	1.29	2.63	2.88	3.62	275.0	2.92	2.49	2.10	700.0	-268.8	1.09
850.0	1.34	1.26	1.18	2.75	2.94	3.69	350.0	2.88	2.47	2.08	800.0	-263.7	-0.37
897.5	1.34	1.27	1.22	2.80	2.94	3.64	425.0	2.88	2.47	2.09	900.0	-257.9	-1.44
1000.0	1.46	1.43	1.36	2.82	2.89	3.48	500.0	2.82	2.40	2.06	1000.0	-254.3	-0.93

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