

# Frequency Mixer

# SCM-5NL+

## 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)		
		+4	+7	+10		+4	+7	+10	+4	+7	+10
1250.0	1280.0	7.07	6.32	5.90	1250.0	24.7	24.8	25.0	17.3	18.9	20.0
1298.5	1328.5	6.96	6.19	5.82	1298.5	24.5	24.6	24.8	16.7	18.3	19.2
1330.9	1300.9	6.34	5.58	5.17	1330.9	25.1	25.1	25.2	15.8	17.5	18.5
1347.1	1317.1	6.36	5.60	5.14	1347.1	25.3	25.5	25.5	15.4	17.1	18.1
1379.4	1349.4	6.12	5.45	5.33	1379.4	25.4	25.8	25.9	14.9	16.6	17.7
1411.8	1381.8	5.91	5.33	5.36	1411.8	25.1	25.6	25.9	14.5	16.0	16.9
1444.1	1414.1	5.86	5.31	5.67	1444.1	25.6	26.2	26.4	14.2	15.4	16.2
1460.3	1430.3	5.81	5.31	5.86	1460.3	26.2	26.7	27.1	14.0	15.2	15.9
1500.0	1470.0	5.87	5.26	5.76	1500.0	26.8	27.1	26.9	13.2	14.0	14.7
1541.2	1511.2	5.85	5.26	5.77	1541.2	27.1	27.6	27.2	13.6	13.8	14.1
1557.4	1527.4	6.01	5.31	5.73	1557.4	27.2	27.6	26.8	13.4	13.2	13.5
1589.7	1559.7	6.04	5.36	5.92	1589.7	27.6	28.2	27.3	13.7	13.1	13.0
1622.1	1592.1	6.23	5.54	5.94	1622.1	27.6	28.0	26.0	13.3	12.4	12.0
1654.4	1624.4	6.32	5.70	6.08	1654.4	27.2	27.4	26.2	13.1	12.2	11.6
1670.5	1640.6	6.37	5.76	6.05	1670.5	27.0	27.1	26.2	13.4	12.4	11.7
1702.9	1672.9	6.59	5.96	6.01	1702.9	26.0	25.8	25.0	12.8	11.5	10.8
1751.5	1721.5	6.61	6.00	5.96	1751.5	26.0	25.7	24.8	12.8	11.3	10.2
1767.6	1737.6	6.55	5.95	5.91	1767.6	26.1	25.8	24.5	12.9	11.3	10.1
1783.8	1753.8	6.61	5.97	5.87	1783.8	25.5	25.1	24.0	12.4	10.7	9.7
1800.0	1770.0	6.63	5.94	5.84	1800.0	25.2	24.8	23.8	12.4	10.7	9.7

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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)		
	+4	+7	+10	+4	+7	+10		+4	+7	+10	+7		
1250.0	3.60	2.97	2.47	8.72	10.89	12.80	5.0	2.29	1.92	1.68	1250.0	-106.1	10.73
1298.5	3.14	2.57	2.16	8.95	10.62	12.09	10.0	2.32	1.94	1.69	1298.5	-96.8	10.24
1330.9	2.80	2.31	1.93	9.23	10.69	12.09	20.0	2.34	1.95	1.70	1330.9	-90.3	10.32
1347.1	2.71	2.24	1.86	9.63	11.03	12.52	50.0	2.35	1.95	1.70	1347.1	-89.3	10.73
1379.4	2.47	2.00	1.67	10.69	11.77	13.09	52.9	2.36	1.95	1.70	1379.4	-80.0	10.62
1411.8	2.25	1.84	1.51	11.24	11.85	13.09	100.0	2.39	1.97	1.71	1411.8	-72.9	11.49
1444.1	2.09	1.69	1.38	11.24	11.69	12.52	100.8	2.39	1.97	1.71	1444.1	-65.6	12.83
1460.3	2.02	1.61	1.31	11.53	11.77	12.52	148.7	2.43	1.99	1.73	1460.3	-65.1	14.16
1500.0	1.88	1.51	1.21	12.44	12.44	12.80	196.6	2.43	1.98	1.72	1500.0	-59.7	16.09
1541.2	1.74	1.43	1.16	12.61	12.71	12.61	200.0	2.43	1.98	1.72	1541.2	-45.0	17.30
1557.4	1.72	1.42	1.16	12.61	12.52	12.44	244.5	2.41	1.97	1.71	1557.4	-41.4	17.69
1589.7	1.67	1.43	1.22	12.35	12.52	12.18	250.0	2.41	1.96	1.71	1589.7	-38.2	18.47
1622.1	1.67	1.47	1.30	12.35	12.52	12.09	260.5	2.39	1.96	1.71	1622.1	-33.3	18.99
1654.4	1.68	1.52	1.39	12.26	12.44	11.85	292.4	2.36	1.95	1.70	1622.1	-29.7	18.70
1670.6	1.70	1.56	1.44	12.18	12.26	11.77	324.4	2.32	1.92	1.68	1670.6	-32.2	19.75
1702.9	1.74	1.64	1.54	11.93	11.85	11.53	372.3	2.23	1.88	1.66	1702.9	-35.6	20.08
1751.5	1.85	1.78	1.71	11.61	11.31	11.09	404.2	2.18	1.87	1.64	1751.5	-34.0	17.75
1767.6	1.88	1.85	1.77	11.53	11.31	10.89	452.1	2.12	1.85	1.63	1767.6	-33.4	16.69
1783.8	1.93	1.90	1.82	11.46	11.17	10.19	484.0	2.08	1.83	1.63	1783.8	-34.5	16.04
1800.0	1.97	1.97	1.90	11.61	11.03	10.50	500.0	2.08	1.83	1.63	1800.0	-38.1	15.67

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