

Frequency Mixer

SIMA-5H

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
2.0	32.0	7.47	7.20	7.14	2.0	78.50	78.20	78.10	74.50	71.40	68.10
4.0	34.0	7.23	6.92	6.86	4.0	77.10	76.90	76.50	73.80	70.70	67.80
5.0	35.0	7.18	6.86	6.78	5.0	76.90	76.00	75.40	73.70	70.80	67.70
10.0	40.0	6.98	6.73	6.66	10.0	73.50	72.20	71.60	72.70	69.40	66.90
20.0	50.0	7.03	6.72	6.64	20.0	68.80	67.40	67.10	70.00	67.90	66.10
50.0	80.0	7.05	6.71	6.64	50.0	61.00	59.90	59.60	63.30	62.40	61.70
100.0	70.0	7.00	6.75	6.67	100.0	54.80	54.30	53.80	56.60	56.40	55.90
162.0	132.5	7.01	6.81	6.73	162.0	51.20	50.50	50.20	52.20	52.10	52.20
200.0	170.0	7.19	6.94	6.79	200.0	49.70	48.80	48.60	50.30	50.40	50.30
376.5	346.5	7.45	7.07	6.84	376.5	45.40	44.00	43.40	44.40	43.10	42.60
500.0	470.0	7.60	7.32	7.04	500.0	43.80	42.50	41.80	41.10	39.30	38.70
590.0	560.5	8.33	7.84	7.27	590.0	42.60	42.00	41.10	38.90	38.20	37.40
750.0	720.0	7.49	7.10	6.81	750.0	40.00	38.20	37.20	35.90	34.50	33.30
804.5	774.5	7.28	6.83	6.65	804.5	39.80	37.90	36.70	35.00	33.40	32.30
1000.0	970.0	7.08	6.80	6.72	1000.0	38.40	36.60	35.30	29.80	29.10	28.50
1018.5	988.5	7.04	6.78	6.71	1018.5	38.20	36.20	35.00	29.40	28.60	28.10
1232.5	1202.5	7.19	6.95	6.93	1232.5	35.00	33.10	31.70	27.60	27.00	26.20
1393.0	1363.0	7.53	7.26	7.22	1393.0	33.90	31.80	30.40	28.50	27.40	26.60
1446.5	1416.5	7.65	7.26	7.18	1446.5	32.90	31.80	29.40	27.80	27.40	26.50
1500.0	1470.0	7.70	7.31	7.16	1500.0	33.10	30.40	29.10	28.10	27.10	26.60

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IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED RoHS compliant
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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)		
	+14	+17	+20	+14	+17	+20		+14	+17	+20	+17		
5.0	1.26	1.30	1.33	1.54	2.25	3.07	5.0	1.32	1.16	1.05	2.00	-722.9	-0.43
10.0	1.18	1.22	1.26	1.50	2.21	3.05	10.0	1.33	1.16	1.06	4.00	-729.1	-0.42
20.0	1.13	1.19	1.22	1.60	2.27	3.11	20.0	1.33	1.17	1.06	5.00	-728.2	-0.42
50.0	1.12	1.18	1.21	1.53	2.21	3.06	50.0	1.33	1.16	1.06	10.00	-724.0	-0.41
100.0	1.11	1.17	1.20	1.55	2.22	2.97	100.0	1.35	1.18	1.08	20.00	-721.1	-0.39
149.7	1.10	1.15	1.19	1.56	2.18	2.94	149.7	1.37	1.20	1.11	50.00	-774.3	-0.34
200.0	1.09	1.13	1.16	1.56	2.17	2.80	200.0	1.39	1.22	1.13	100.00	-735.7	-0.27
294.4	1.08	1.08	1.10	1.61	2.12	2.76	294.4	1.42	1.26	1.17	200.00	-769.0	-0.11
439.0	1.15	1.10	1.07	1.60	2.03	2.60	439.0	1.43	1.28	1.21	208.62	-760.2	-0.09
500.0	1.21	1.17	1.15	1.66	2.09	2.46	500.0	1.43	1.29	1.22	415.24	-676.7	0.82
583.7	1.30	1.28	1.27	1.57	1.92	3.10	583.7	1.43	1.30	1.24	500.00	-629.2	1.04
728.4	1.45	1.46	1.47	1.64	1.97	2.88	728.4	1.41	1.33	1.30	621.86	-623.4	1.44
750.0	1.47	1.47	1.48	1.68	2.05	2.55	750.0	1.41	1.32	1.30	750.00	-636.1	4.36
873.1	1.58	1.59	1.61	1.81	2.01	2.39	873.1	1.53	1.50	1.53	828.48	-632.5	7.03
1000.0	1.70	1.73	1.74	1.89	1.91	2.27	1000.0	1.83	1.90	1.97	1000.00	-701.8	10.15
1017.7	1.73	1.75	1.78	1.92	1.91	2.20	1017.7	1.91	1.99	2.07	1035.10	-698.3	11.15
1162.4	1.91	1.95	1.98	2.10	1.80	1.97	1162.4	3.06	3.26	3.34	1241.72	-690.3	12.70
1307.1	2.01	2.05	2.09	2.27	1.70	1.74	1307.1	5.38	5.52	5.59	1396.69	-624.3	8.79
1451.8	2.05	2.09	2.13	2.30	1.58	1.48	1451.8	7.17	7.08	7.00	1448.35	-611.0	7.87
1500.0	2.08	2.12	2.15	2.26	1.52	1.40	1500.0	7.25	7.14	7.05	1500.00	-603.7	7.02

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