

Frequency Mixer

SMIQ-6243H+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	Image Rejection (UP Conv. Mode) IF Fixed @IF(OUT)=200MHz (dB)			RF (IN) (MHz)	LO (MHz)	Image Rejection (UP Conv. Mode) IF Fixed @IF(OUT)=2000MHz (dB)			RF (IN) (MHz)	LO (MHz)	Image Rejection (UP Conv. Mode) IF Fixed @IF(OUT)=3000MHz (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+17	+18	+19			+17	+18	+19			+17	+18	+19
6400.1	6200.1	19.01	18.42	17.95	8600.1	6600.1	29.82	27.01	20.17	10200.1	7200.1	16.75	21.74	22.68
6600.1	6400.1	20.57	19.58	18.51	8800.1	6800.1	22.37	26.47	25.86	10400.1	7400.1	16.04	22.37	42.73
6800.1	6600.1	24.88	23.75	22.41	9000.1	7000.1	33.91	33.97	25.06	10600.1	7600.1	21.69	27.44	27.10
7200.1	7000.1	22.89	22.40	21.78	9200.1	7200.1	29.25	32.76	31.41	10800.1	7800.1	23.40	28.39	43.53
7600.1	7400.1	30.70	29.95	28.56	9400.1	7400.1	28.80	31.92	31.98	11000.1	8000.1	28.67	30.86	31.17
8000.1	7800.1	33.57	31.92	30.04	9600.1	7600.1	35.22	38.38	35.55	11200.1	8200.1	27.92	28.13	27.61
8400.1	8200.1	32.46	32.18	30.88	9800.1	7800.1	31.10	32.19	33.42	11600.1	8600.1	27.24	28.18	29.30
8800.1	8600.1	30.19	31.18	31.31	10000.1	8000.1	38.63	39.22	39.39	12000.1	9000.1	29.78	30.58	31.62
9200.1	9000.1	29.66	29.73	29.81	10400.1	8400.1	36.88	35.83	35.25	12400.1	9400.1	32.96	34.50	36.15
9600.1	9400.1	36.26	35.60	33.98	10800.1	8800.1	39.58	39.56	39.17	12800.1	9800.1	52.65	41.74	37.57
10000.1	9800.1	39.29	43.62	43.32	11200.1	9200.1	49.23	43.92	40.00	13200.1	10200.1	32.44	31.10	30.08
10400.1	10200.1	36.91	41.20	40.97	11600.1	9600.1	43.96	38.40	35.96	13600.1	10600.1	33.37	31.53	30.52
10800.1	10600.1	41.89	53.51	42.96	12000.1	10000.1	40.21	39.13	36.14	14000.1	11000.1	25.76	25.52	25.27
11200.1	11000.1	36.89	40.04	38.26	12400.1	10400.1	31.03	29.26	27.94	14200.1	11200.1	25.20	25.41	25.63
11600.1	11400.1	35.56	33.97	32.24	12800.1	10800.1	32.61	30.03	28.25	14400.1	11400.1	27.59	27.67	27.80
12000.1	11800.1	35.25	34.41	33.62	13200.1	11200.1	27.46	26.48	25.58	14600.1	11600.1	29.47	28.89	28.47
12400.1	12200.1	26.27	25.31	24.92	13600.1	11600.1	25.36	24.80	24.38	14800.1	11800.1	29.39	28.43	27.79
12800.1	12600.1	30.25	29.40	29.04	14000.1	12000.1	27.43	26.29	25.76	15000.1	12000.1	28.04	26.91	26.33
13200.1	13000.1	36.16	34.02	32.84	14400.1	12400.1	26.52	25.59	24.98	15200.1	12200.1	30.47	28.89	27.69
13600.1	13400.1	29.92	29.10	28.51	14800.1	12800.1	28.25	27.36	26.83	15400.1	12400.1	30.27	29.20	28.30
14000.1	13800.1	32.49	31.42	30.35	15000.1	13000.1	26.48	25.98	25.64	15600.1	12600.1	29.01	27.92	27.22
14400.1	14200.1	31.35	30.70	29.98	15200.1	13200.1	25.98	25.45	25.11	15800.1	12800.1	28.76	27.71	27.05
14800.1	14600.1	29.85	29.90	29.81	15600.1	13600.1	24.42	24.16	23.90	16000.1	13000.1	28.78	27.74	27.07
15200.1	15000.1	28.36	28.43	28.48	16000.1	14000.1	24.19	24.10	23.97	16400.1	13400.1	27.66	27.02	26.52
15400.1	15200.1	28.31	28.41	28.40	16400.1	14400.1	24.64	24.56	24.43	16800.1	13800.1	26.70	26.07	25.55
15600.1	15400.1	28.03	28.25	28.34	16800.1	14800.1	23.39	23.61	23.79	17200.1	14200.1	27.19	26.71	26.33
16000.1	15800.1	27.29	28.18	28.95	17200.1	15200.1	23.81	24.08	24.32	17600.1	14600.1	26.20	25.90	25.73
16400.1	16200.1	27.54	28.60	29.67	17600.1	15600.1	23.17	23.78	24.38	18000.1	15000.1	26.26	26.16	26.18
16800.1	16600.1	25.94	27.40	28.90	18000.1	16000.1	21.75	22.22	22.87	18400.1	15400.1	24.19	24.61	25.10
17200.1	17000.1	24.54	25.78	27.29	18400.1	16400.1	21.93	22.31	22.77	18800.1	15800.1	23.55	23.91	24.47
17600.1	17400.1	25.28	26.52	28.03	18800.1	16800.1	23.60	23.69	23.88	19200.1	16200.1	23.98	24.18	24.54
18000.1	17800.1	27.62	29.13	30.83	19200.1	17200.1	23.87	24.29	24.70	19600.1	16600.1	24.72	24.87	25.09
18400.1	18200.1	29.45	31.21	33.07	19600.1	17600.1	23.93	24.71	25.45	20000.1	17000.1	24.39	24.86	25.35
18800.1	18600.1	31.94	33.54	34.87	20000.1	18000.1	23.93	24.91	25.81	20400.1	17400.1	24.27	24.92	25.63
19200.1	19000.1	32.58	34.18	35.83	20400.1	18400.1	23.62	24.60	25.61	20800.1	17800.1	25.23	26.05	26.84
19600.1	19400.1	33.50	35.26	37.82	20800.1	18800.1	25.25	25.96	26.73	21000.1	18000.1	25.27	26.11	26.98
20000.1	19800.1	35.86	38.51	43.66	21200.1	19200.1	26.06	26.73	27.52	21200.1	18200.1	25.06	26.00	26.96
20400.1	20200.1	40.94	43.30	44.75	21600.1	19600.1	27.09	27.79	28.78	21600.1	18600.1	25.57	26.40	27.21
20800.1	20600.1	38.66	38.83	38.99	22000.1	20000.1	26.97	28.11	29.48	22000.1	19000.1	25.45	26.22	26.95
21200.1	21000.1	35.03	35.74	36.24	22400.1	20400.1	31.13	32.66	34.08	22400.1	19400.1	24.71	25.40	26.16
21600.1	21400.1	28.58	29.30	29.83	22800.1	20800.1	40.89	44.12	46.85	22800.1	19800.1	24.03	24.94	26.08
22000.1	21800.1	25.51	26.77	27.83	23200.1	21200.1	37.64	41.30	44.79	23200.1	20200.1	26.29	27.96	29.42
22400.1	22200.1	25.33	26.77	28.19	23600.1	21600.1	35.33	39.67	44.88	23600.1	20600.1	31.02	32.41	33.35
22800.1	22600.1	24.94	26.09	27.39	24000.1	22000.1	34.93	38.60	41.98	24000.1	21000.1	31.54	32.23	32.40
23200.1	23000.1	24.83	25.99	27.32	25000.1	23000.1	33.06	34.24	35.34	25000.1	22000.1	28.00	29.00	29.75
23600.1	23400.1	24.50	25.79	27.39	26000.1	24000.1	38.29	38.73	38.79	26000.1	23000.1	29.49	29.99	30.56
24000.1	23800.1	25.10	26.04	27.28	27000.1	25000.1	33.03	33.55	34.12	27000.1	24000.1	31.72	32.14	32.55
24200.1	24000.1	25.47	26.25	27.31	28000.1	26000.1	27.58	29.33	30.93	28000.1	25000.1	31.97	32.27	32.58



Frequency Mixer

SMIQ-6243H+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	Image Rejection (DOWN Conv. Mode) IF Fixed @IF(OUT)=200MHz (dB)			RF (IN) (MHz)	LO (MHz)	Image Rejection (DOWN Conv. Mode) IF Fixed @IF(OUT)=2000MHz (dB)			RF (IN) (MHz)	LO (MHz)	Image Rejection (DOWN Conv. Mode) IF Fixed @IF(OUT)=3000MHz (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+17	+18	+19			+17	+18	+19			+17	+18	+19
6200.1	6000.1	24.28	25.37	26.89	8000.1	6000.1	23.14	22.44	22.11	9000.1	6000.1	20.08	19.44	19.25
6400.1	6200.1	31.51	35.68	41.27	8200.1	6200.1	26.34	25.96	25.72	9200.1	6200.1	23.36	22.67	22.37
6600.1	6400.1	31.98	37.78	42.84	8400.1	6400.1	26.00	26.66	26.83	9400.1	6400.1	25.59	24.24	23.37
7000.1	6800.1	30.37	32.25	31.96	8800.1	6800.1	34.58	39.97	44.97	9800.1	6800.1	28.35	27.41	26.55
7400.1	7200.1	37.46	37.48	34.02	9200.1	7200.1	39.83	36.76	33.25	10200.1	7200.1	25.51	24.60	23.90
7800.1	7600.1	34.72	35.68	34.01	9600.1	7600.1	39.09	36.44	33.68	10600.1	7600.1	24.13	23.45	22.90
8200.1	8000.1	34.45	33.44	31.67	10000.1	8000.1	34.58	35.46	35.00	11000.1	8000.1	25.82	25.22	24.52
8600.1	8400.1	34.40	32.70	30.71	10400.1	8400.1	39.90	40.46	39.72	11400.1	8400.1	25.74	25.70	25.32
9000.1	8800.1	44.43	39.10	33.30	10800.1	8800.1	34.80	41.50	46.98	11800.1	8800.1	27.34	27.66	27.63
9400.1	9200.1	37.80	36.92	33.49	11200.1	9200.1	30.50	32.31	33.98	12200.1	9200.1	26.65	26.67	26.58
9800.1	9600.1	37.60	35.89	32.62	11600.1	9600.1	30.42	33.26	36.41	12600.1	9600.1	26.33	27.08	27.49
10200.1	10000.1	38.01	36.50	33.47	12000.1	10000.1	31.64	35.56	41.21	13000.1	10000.1	26.94	28.56	30.11
10600.1	10400.1	39.68	37.69	34.29	12400.1	10400.1	29.64	32.19	34.79	13400.1	10400.1	30.04	31.77	32.69
11000.1	10800.1	43.28	38.53	34.64	12800.1	10800.1	36.63	35.68	34.04	13800.1	10800.1	26.38	27.57	28.74
11400.1	11200.1	41.93	36.09	32.82	13200.1	11200.1	38.45	42.13	41.22	14200.1	11200.1	32.29	34.18	35.58
11800.1	11600.1	30.05	28.70	27.64	13600.1	11600.1	40.95	40.23	38.31	14600.1	11600.1	29.50	30.00	30.61
12200.1	12000.1	26.70	26.39	26.09	14000.1	12000.1	37.37	33.82	32.12	15000.1	12000.1	30.51	30.35	30.05
12600.1	12400.1	37.10	33.06	30.30	14400.1	12400.1	36.32	33.13	30.71	15400.1	12400.1	32.06	32.31	31.66
13000.1	12800.1	29.85	28.68	27.86	14800.1	12800.1	31.96	30.38	29.29	15800.1	12800.1	31.22	32.48	33.11
13400.1	13200.1	30.23	29.16	28.54	15200.1	13200.1	31.38	30.43	29.65	16200.1	13200.1	29.03	29.84	30.22
13800.1	13600.1	28.06	27.43	26.91	15600.1	13600.1	30.66	30.50	30.07	16600.1	13600.1	29.16	30.18	30.81
14200.1	14000.1	26.06	25.63	25.27	16000.1	14000.1	27.41	27.60	27.52	17000.1	14000.1	29.50	31.01	31.92
14600.1	14400.1	24.44	24.24	24.04	16400.1	14400.1	26.49	27.15	27.54	17400.1	14400.1	28.75	30.07	30.68
15000.1	14800.1	23.41	23.61	23.76	16800.1	14800.1	25.25	26.15	26.75	17800.1	14800.1	27.05	28.89	30.22
15200.1	15000.1	22.91	23.29	23.55	17000.1	15000.1	24.18	25.16	25.82	18000.1	15000.1	26.43	28.46	29.87
15400.1	15200.1	21.95	22.60	23.07	17200.1	15200.1	23.06	24.16	24.90	18200.1	15200.1	24.94	26.67	28.01
15800.1	15600.1	20.99	21.75	22.36	17600.1	15600.1	21.94	23.13	24.14	18600.1	15600.1	25.15	27.33	29.15
16200.1	16000.1	21.02	21.93	22.77	18000.1	16000.1	22.45	23.47	24.52	19000.1	16000.1	24.70	26.33	27.94
16600.1	16400.1	21.57	22.37	23.21	18400.1	16400.1	22.33	23.14	24.08	19400.1	16400.1	25.30	26.43	27.63
17000.1	16800.1	22.66	23.47	24.15	18800.1	16800.1	23.25	24.10	24.95	19800.1	16800.1	25.90	26.95	28.10
17400.1	17200.1	23.33	24.49	25.50	19200.1	17200.1	24.25	25.23	26.16	20200.1	17200.1	27.33	29.09	30.95
17800.1	17600.1	22.99	24.15	25.41	19600.1	17600.1	25.07	26.26	27.41	20600.1	17600.1	27.43	29.03	30.64
18200.1	18000.1	23.64	24.57	25.64	20000.1	18000.1	26.01	27.61	29.07	21000.1	18000.1	28.89	30.79	32.80
18600.1	18400.1	25.35	26.19	26.96	20400.1	18400.1	26.80	28.39	30.05	21400.1	18400.1	32.55	35.53	39.99
19000.1	18800.1	26.99	27.61	28.24	20800.1	18800.1	26.87	28.35	29.95	21800.1	18800.1	33.84	37.32	42.66
19400.1	19200.1	28.97	29.44	29.96	21200.1	19200.1	26.93	28.31	29.49	22200.1	19200.1	33.60	37.05	41.28
19800.1	19600.1	30.04	30.66	31.50	21600.1	19600.1	27.20	28.56	29.95	22600.1	19600.1	37.67	43.11	44.80
20200.1	20000.1	31.39	32.71	33.89	22000.1	20000.1	29.22	31.75	34.11	23000.1	20000.1	41.24	42.28	39.55
20600.1	20400.1	35.10	36.16	36.83	22400.1	20400.1	31.40	32.78	33.51	23400.1	20400.1	28.54	29.82	30.12
21000.1	20800.1	45.17	45.53	42.30	22800.1	20800.1	35.88	36.64	36.85	23800.1	20800.1	20.68	22.43	25.60
21400.1	21200.1	39.92	42.90	44.78	23200.1	21200.1	29.14	30.48	31.50	24000.1	21000.1	17.72	19.61	21.71
21800.1	21600.1	38.07	38.57	38.88	23600.1	21600.1	28.68	30.20	31.35	24600.1	21600.1	7.26	14.71	18.13
22200.1	22000.1	34.79	39.36	42.64	24000.1	22000.1	26.63	28.35	29.72	25000.1	22000.1	5.71	13.55	18.01
22600.1	22400.1	37.48	43.89	48.98	24400.1	22400.1	25.14	27.85	29.67	25400.1	22400.1	0.87	8.95	15.52
23000.1	22800.1	34.82	37.88	42.34	24800.1	22800.1	22.96	25.69	29.83	25800.1	22800.1	9.15	6.87	0.83
23400.1	23200.1	33.90	36.26	39.25	25200.1	23200.1	16.16	20.14	22.84	26200.1	23200.1	11.69	9.97	5.20
23800.1	23600.1	32.89	34.16	35.89	25600.1	23600.1	8.69	16.12	19.51	26600.1	23600.1	10.60	7.87	2.56
24000.1	23800.1	31.15	32.49	34.39	26000.1	24000.1	7.96	15.03	18.31	27000.1	24000.1	11.25	9.55	0.77



Frequency Mixer

SMIQ-6243H+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS VS. RF FREQUENCY @IF = 200 MHz			RF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. RF FREQUENCY @IF = 2000 MHz			RF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. RF FREQUENCY @IF = 3000 MHz		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+17	+18	+19			+17	+18	+19			+17	+18	+19
6000.1	6200.1	8.29	8.00	7.76	6000.1	8000.1	7.84	7.73	7.65	6000.1	9000.1	8.20	8.17	8.15
6200.1	6400.1	7.86	7.63	7.44	6200.1	8200.1	7.44	7.36	7.30	6200.1	9200.1	7.77	7.75	7.74
6400.1	6600.1	7.54	7.33	7.18	6400.1	8400.1	7.28	7.24	7.21	6400.1	9400.1	7.59	7.57	7.56
6800.1	7000.1	7.70	7.47	7.44	6800.1	8800.1	7.06	7.06	7.07	6800.1	9800.1	7.67	7.61	7.59
7200.1	7400.1	7.66	7.57	7.55	7200.1	9200.1	7.00	7.02	7.04	7200.1	10200.1	7.74	7.66	7.62
7600.1	7800.1	7.52	7.47	7.47	7600.1	9600.1	7.06	7.07	7.11	7600.1	10600.1	8.07	7.95	7.88
8000.1	8200.1	7.23	7.19	7.21	8000.1	10000.1	7.11	7.06	7.07	8000.1	11000.1	8.44	8.30	8.21
8400.1	8600.1	7.19	7.16	7.19	8400.1	10400.1	7.59	7.51	7.47	8400.1	11400.1	8.57	8.53	8.51
8800.1	9000.1	7.28	7.26	7.30	8800.1	10800.1	7.96	7.91	7.88	8800.1	11800.1	8.47	8.42	8.42
9200.1	9400.1	7.37	7.37	7.41	9200.1	11200.1	7.82	7.87	7.95	9200.1	12200.1	8.60	8.45	8.34
9600.1	9800.1	7.43	7.44	7.51	9600.1	11600.1	7.74	7.71	7.73	9600.1	12600.1	8.87	8.73	8.61
10000.1	10200.1	7.78	7.75	7.78	10000.1	12000.1	8.22	8.05	7.98	10000.1	13000.1	9.26	9.11	8.99
10400.1	10600.1	8.15	8.14	8.16	10400.1	12400.1	8.77	8.63	8.51	10400.1	13400.1	9.97	9.78	9.62
10800.1	11000.1	8.00	7.96	7.99	10800.1	12800.1	9.35	9.20	9.09	10800.1	13800.1	9.86	9.68	9.54
11200.1	11400.1	7.79	7.73	7.73	11200.1	13200.1	9.45	9.24	9.07	11200.1	14200.1	10.01	9.82	9.67
11600.1	11800.1	8.06	7.92	7.85	11600.1	13600.1	9.47	9.30	9.16	11600.1	14600.1	9.77	9.57	9.43
12000.1	12200.1	8.73	8.55	8.41	12000.1	14000.1	9.45	9.20	9.03	12000.1	15000.1	9.57	9.38	9.25
12400.1	12600.1	8.41	8.27	8.17	12400.1	14400.1	8.96	8.81	8.71	12400.1	15400.1	9.48	9.34	9.23
12800.1	13000.1	8.40	8.24	8.14	12800.1	14800.1	8.68	8.53	8.44	12800.1	15800.1	9.12	9.03	8.96
13200.1	13400.1	8.01	7.87	7.79	13200.1	15200.1	8.42	8.32	8.26	13200.1	16200.1	8.85	8.83	8.84
13600.1	13800.1	7.91	7.77	7.69	13600.1	15600.1	8.33	8.27	8.23	13600.1	16600.1	8.54	8.54	8.63
14000.1	14200.1	7.97	7.81	7.72	14000.1	16000.1	8.25	8.25	8.27	14000.1	17000.1	8.51	8.49	8.56
14400.1	14600.1	8.07	7.93	7.85	14400.1	16400.1	8.22	8.25	8.32	14400.1	17400.1	8.58	8.57	8.65
14800.1	15000.1	8.31	8.17	8.10	14800.1	16800.1	8.27	8.34	8.47	14800.1	17800.1	8.81	8.81	8.90
15000.1	15200.1	8.42	8.28	8.20	15000.1	17000.1	8.28	8.34	8.47	15000.1	18000.1	8.88	8.88	8.97
15200.1	15400.1	8.61	8.45	8.36	15200.1	17200.1	8.39	8.42	8.52	15200.1	18200.1	8.90	8.87	8.95
15600.1	15800.1	8.80	8.65	8.57	15600.1	17600.1	8.51	8.52	8.61	15600.1	18600.1	9.27	9.02	8.95
16000.1	16200.1	8.91	8.75	8.69	16000.1	18000.1	8.70	8.63	8.65	16000.1	19000.1	9.87	9.57	9.43
16400.1	16600.1	9.42	9.24	9.13	16400.1	18400.1	9.52	9.32	9.26	16400.1	19400.1	10.33	10.06	9.93
16800.1	17000.1	9.53	9.40	9.32	16800.1	18800.1	9.98	9.82	9.79	16800.1	19800.1	10.40	10.18	10.09
17200.1	17400.1	9.74	9.60	9.55	17200.1	19200.1	10.19	10.10	10.12	17200.1	20200.1	10.40	10.10	10.00
17600.1	17800.1	9.93	9.66	9.52	17600.1	19600.1	10.02	9.94	9.99	17600.1	20600.1	10.32	10.04	9.92
18000.1	18200.1	10.04	9.81	9.68	18000.1	20000.1	9.98	9.79	9.76	18000.1	21000.1	10.36	10.14	10.03
18400.1	18600.1	10.07	9.90	9.82	18400.1	20400.1	10.05	9.86	9.80	18400.1	21400.1	10.75	10.46	10.31
18800.1	19000.1	9.95	9.80	9.77	18800.1	20800.1	10.10	9.94	9.88	18800.1	21800.1	10.90	10.64	10.49
19200.1	19400.1	9.78	9.55	9.47	19200.1	21200.1	10.11	9.96	9.91	19200.1	22200.1	10.79	10.55	10.42
19600.1	19800.1	9.47	9.28	9.24	19600.1	21600.1	10.02	9.83	9.76	19600.1	22600.1	10.50	10.27	10.14
20000.1	20200.1	9.29	9.13	9.11	20000.1	22000.1	9.96	9.73	9.60	20000.1	23000.1	10.62	10.42	10.28
20400.1	20600.1	9.28	9.20	9.22	20400.1	22400.1	10.22	10.03	9.91	20400.1	23400.1	11.30	11.08	10.90
20800.1	21000.1	9.29	9.27	9.31	20800.1	22800.1	10.83	10.64	10.51	20800.1	23800.1	11.73	11.53	11.36
21200.1	21400.1	9.41	9.34	9.35	21200.1	23200.1	11.35	11.15	11.00	21200.1	24000.1	11.59	11.41	11.27
21600.1	21800.1	9.81	9.72	9.70	21600.1	23600.1	11.00	10.85	10.73	21600.1	24600.1	11.16	10.99	10.88
22000.1	22200.1	10.47	10.30	10.20	22000.1	24000.1	10.64	10.50	10.41	22000.1	25000.1	11.26	11.06	10.93
22400.1	22600.1	10.42	10.26	10.16	22400.1	24400.1	10.42	10.28	10.19	22400.1	25400.1	11.90	11.56	11.35
22800.1	23000.1	10.17	10.04	9.98	22800.1	24800.1	10.80	10.67	10.58	22800.1	25800.1	13.20	12.53	12.14
23200.1	23400.1	10.16	10.02	9.93	23200.1	25200.1	11.52	11.29	11.13	23200.1	26200.1	17.35	14.15	13.02
23600.1	23800.1	10.55	10.42	10.33	23600.1	25600.1	12.49	12.01	11.71	23600.1	26600.1	22.54	15.23	13.22
23800.1	24000.1	10.96	10.78	10.64	24000.1	26000.1	12.99	12.26	11.89	24000.1	27000.1	37.85	27.45	16.44

Frequency Mixer

SMIQ-6243H+

Typical Performance Data

IF (MHz)	RF (IN) (MHz)	CONVERSION LOSS VS. IF FREQUENCY @ Fixed LO = 6.3 GHz			IF (MHz)	RF (IN) (MHz)	CONVERSION LOSS VS. IF FREQUENCY @ Fixed LO = 24.7GHz		
		@LO (dBm)					@LO (dBm)		
		+17	+18	+19			+17	+18	+19
10	6310.1	7.63	7.33	7.15	10	24690.1	12.67	12.72	12.42
50	6350.1	7.26	6.99	6.76	50	24650.1	12.61	12.40	12.19
100	6400.1	7.23	6.95	6.72	100	24600.1	12.40	12.18	11.99
200	6500.1	7.04	6.76	6.53	200	24500.1	12.26	12.04	11.85
300	6600.1	7.02	6.73	6.49	300	24400.1	12.17	11.94	11.76
400	6700.1	7.02	6.72	6.48	400	24300.1	12.04	11.82	11.63
500	6800.1	7.10	6.79	6.58	500	24200.1	11.91	11.69	11.50
600	6900.1	7.05	6.74	6.58	600	24100.1	11.78	11.57	11.38
700	7000.1	7.15	6.83	6.73	700	24000.1	11.61	11.40	11.23
800	7100.1	7.16	6.84	6.71	800	23900.1	11.51	11.30	11.12
900	7200.1	7.23	6.90	6.72	900	23800.1	11.56	11.35	11.17
1000	7300.1	7.29	6.95	6.77	1000	23700.1	11.41	11.21	11.03
1100	7400.1	7.34	7.00	6.79	1100	23600.1	11.30	11.10	10.94
1200	7500.1	7.39	7.04	6.79	1200	23500.1	11.21	11.03	10.87
1300	7600.1	7.40	7.05	6.78	1300	23400.1	11.08	10.90	10.75
1400	7700.1	7.35	7.01	6.75	1400	23300.1	11.04	10.86	10.72
1500	7800.1	7.31	6.98	6.77	1500	23200.1	10.85	10.69	10.57
1600	7900.1	7.30	6.97	6.77	1600	23100.1	10.75	10.60	10.49
1700	8000.1	7.32	7.00	6.83	1700	23000.1	10.67	10.53	10.43
1800	8100.1	7.39	7.08	6.89	1800	22900.1	10.68	10.54	10.43
1900	8200.1	7.50	7.19	7.01	1900	22800.1	10.72	10.58	10.49
2000	8300.1	7.53	7.24	7.12	2000	22700.1	10.69	10.55	10.46
2100	8400.1	7.58	7.30	7.24	2100	22600.1	10.69	10.56	10.47
2200	8500.1	7.68	7.39	7.35	2200	22500.1	10.67	10.54	10.46
2300	8600.1	7.86	7.57	7.53	2300	22400.1	10.71	10.57	10.49
2400	8700.1	8.01	7.76	7.72	2400	22300.1	10.73	10.60	10.51
2500	8800.1	8.20	7.90	7.71	2500	22200.1	10.84	10.69	10.59
2600	8900.1	8.33	8.04	7.85	2600	22100.1	10.94	10.79	10.70
2700	9000.1	8.36	8.06	7.94	2700	22000.1	10.99	10.84	10.74
2800	9100.1	8.42	8.13	8.03	2800	21900.1	11.08	10.93	10.82
2900	9200.1	8.42	8.16	8.09	2900	21800.1	11.02	10.87	10.76
3000	9300.1	8.50	8.26	8.18	3000	21700.1	11.15	10.99	10.88
3100	9400.1	8.52	8.35	8.28	3200	21500.1	11.26	11.10	10.99
3200	9500.1	8.59	8.46	8.39	3400	21300.1	11.33	11.17	11.05
3300	9600.1	8.75	8.62	8.55	3600	21100.1	11.48	11.32	11.20
3400	9700.1	8.86	8.73	8.67	3800	20900.1	11.60	11.43	11.31
3600	9900.1	9.19	9.06	9.01	4000	20700.1	11.73	11.56	11.43
3800	10100.1	9.39	9.28	9.24	4200	20500.1	11.96	11.77	11.63
4000	10300.1	9.53	9.44	9.43	4400	20300.1	12.17	11.98	11.83
4200	10500.1	9.69	9.62	9.62	4600	20100.1	12.37	12.15	11.97
4400	10700.1	9.73	9.67	9.70	4800	19900.1	12.69	12.45	12.25
4600	10900.1	9.61	9.57	9.63	5000	19700.1	13.11	12.82	12.58
4800	11100.1	9.56	9.53	9.60	5200	19500.1	13.30	12.99	12.72
5000	11300.1	9.69	9.66	9.75	5400	19300.1	13.54	13.21	12.92
5200	11500.1	9.64	9.63	9.75	5600	19100.1	13.54	13.21	12.94
5400	11700.1	9.75	9.75	9.90	5800	18900.1	13.56	13.24	12.98
5600	11900.1	9.73	9.75	9.93	6000	18700.1	13.41	13.13	12.90
5700	12000.1	9.69	9.71	9.92	6200	18500.1	13.35	13.10	12.90

Frequency Mixer

SMIQ-6243H+

Typical Performance Data

LO (IN) (MHz)	L-R ISOLATION (dB)			L-I ISOLATION (dB)			L-Q ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)			@LO (dBm)		
	+17	+18	+19	+17	+18	+19	+17	+18	+19
6000.1	50.52	50.53	50.39	37.24	37.17	37.22	40.28	40.32	40.34
6400.1	49.79	50.35	50.71	38.56	38.24	38.08	43.13	42.86	42.58
6800.1	47.97	49.03	49.95	40.72	40.17	39.82	48.50	47.40	46.34
7200.1	46.86	47.70	48.41	43.95	42.95	42.23	59.77	54.13	50.90
7600.1	46.08	47.01	47.80	45.55	44.60	43.80	50.61	50.97	50.06
8000.1	44.07	45.05	45.92	46.02	45.94	45.58	45.60	46.65	46.99
8400.1	41.72	42.49	43.21	45.12	46.18	46.79	42.43	43.74	44.78
8800.1	41.02	41.65	42.24	44.81	45.55	46.03	41.74	42.57	43.15
9200.1	40.65	41.23	41.78	45.05	45.86	46.42	40.92	41.48	41.77
9600.1	40.00	40.63	41.22	44.64	45.52	46.18	40.06	40.56	40.83
10000.1	39.66	40.22	40.78	45.49	46.35	47.00	40.69	41.10	41.39
10400.1	39.52	40.05	40.60	49.43	50.35	51.05	42.95	43.33	43.61
10800.1	39.05	39.51	39.99	56.21	57.10	57.81	45.21	45.43	45.61
11200.1	38.86	39.40	39.97	68.42	68.45	67.46	47.40	47.70	47.91
11600.1	38.93	39.42	40.00	54.35	54.74	55.11	47.70	48.19	48.53
12000.1	40.39	40.92	41.42	51.23	51.16	51.13	50.35	51.05	51.58
12400.1	41.06	41.95	42.77	47.47	47.67	47.81	62.24	63.23	64.43
12800.1	40.49	41.48	42.47	46.18	46.55	46.86	55.39	55.89	56.33
13200.1	39.97	40.95	41.95	47.59	47.99	48.36	50.73	51.11	51.47
13600.1	40.12	41.25	42.43	49.57	50.06	50.44	46.65	46.95	47.22
14000.1	39.73	40.88	42.10	52.07	52.98	53.65	43.85	44.06	44.27
14400.1	39.12	40.24	41.39	52.64	54.11	55.51	42.59	42.60	42.64
14800.1	39.34	40.59	41.88	47.19	47.34	47.62	40.92	40.79	40.70
15000.1	39.66	41.06	42.54	46.49	46.44	46.52	40.72	40.60	40.52
15200.1	40.22	41.83	43.62	47.38	47.24	47.23	41.68	41.56	41.49
15400.1	40.70	42.66	44.98	48.75	48.64	48.63	43.64	43.51	43.44
15600.1	40.80	42.85	45.28	49.66	49.64	49.70	45.28	45.13	45.04
16000.1	41.22	43.73	47.02	47.48	47.63	47.93	45.57	45.50	45.43
16400.1	41.27	43.93	47.47	44.74	44.76	44.84	41.86	41.77	41.65
16800.1	40.22	41.85	43.85	44.32	44.48	44.69	42.48	42.47	42.44
17200.1	39.70	40.82	42.09	45.82	46.15	46.51	46.34	46.39	46.42
17600.1	39.06	39.88	40.75	47.42	47.86	48.34	48.82	49.08	49.33
18000.1	39.44	40.31	41.20	46.62	47.01	47.50	46.76	47.03	47.28
18400.1	40.21	41.06	41.92	44.30	44.64	45.12	42.42	42.61	42.79
18800.1	40.35	41.14	41.91	40.59	40.81	41.16	38.93	39.05	39.17
19200.1	40.77	41.55	42.30	37.43	37.50	37.69	37.50	37.57	37.65
19600.1	40.16	40.77	41.30	35.60	35.59	35.72	37.26	37.30	37.36
20000.1	40.04	40.56	41.04	35.10	35.09	35.17	37.83	37.86	37.95
20400.1	39.53	39.97	40.33	34.97	34.98	34.99	38.03	38.04	38.06
20800.1	38.83	39.14	39.35	35.13	35.05	34.97	36.23	36.10	35.99
21200.1	38.42	38.62	38.73	34.07	33.79	33.52	33.33	33.07	32.81
21600.1	37.39	37.54	37.60	31.69	31.16	30.69	31.86	31.47	31.10
22000.1	36.06	36.26	36.41	30.25	29.55	28.96	33.05	32.48	31.96
22400.1	35.05	35.33	35.56	29.18	28.48	27.91	33.24	32.62	32.06
22800.1	34.57	34.99	35.37	28.56	27.93	27.39	32.70	32.22	31.76
23200.1	34.18	34.78	35.36	27.91	27.44	27.02	32.23	31.96	31.70
23600.1	33.86	34.56	35.24	26.80	26.47	26.13	31.29	31.15	30.98
24000.1	34.06	34.80	35.55	26.68	26.47	26.22	30.58	30.54	30.47

Frequency Mixer

SMIQ-6243H+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	R-I ISOLATION (dB)			R-Q ISOLATION (dB)		
		@LO (dBm)			@LO (dBm)		
		+17	+18	+19	+17	+18	+19
6000.1	6200.1	31.45	31.61	31.67	31.29	31.41	31.54
6200.1	6400.1	31.05	31.18	31.24	31.36	31.51	31.66
6400.1	6600.1	30.92	31.02	31.06	31.67	31.87	32.05
6800.1	7000.1	31.90	31.91	31.86	33.32	33.36	33.46
7200.1	7400.1	33.29	33.27	33.18	35.57	35.50	35.45
7600.1	7800.1	35.11	35.01	34.87	37.26	37.07	36.90
8000.1	8200.1	36.50	36.42	36.27	38.11	37.98	37.85
8400.1	8600.1	38.01	37.99	37.92	40.25	40.09	39.94
8800.1	9000.1	38.56	38.41	38.29	41.08	41.06	40.97
9200.1	9400.1	38.73	38.53	38.34	41.37	41.28	41.20
9600.1	9800.1	37.65	37.47	37.31	41.12	41.07	41.02
10000.1	10200.1	36.68	36.54	36.42	41.95	41.83	41.73
10400.1	10600.1	36.81	36.66	36.57	42.87	42.91	42.93
10800.1	11000.1	37.75	37.55	37.40	44.47	44.36	44.33
11200.1	11400.1	38.11	37.93	37.78	46.25	45.83	45.55
11600.1	11800.1	38.23	38.20	38.20	48.22	47.84	47.52
12000.1	12200.1	38.44	38.41	38.41	46.68	46.63	46.60
12400.1	12600.1	37.96	37.94	37.92	43.10	43.08	43.08
12800.1	13000.1	37.83	37.86	37.90	40.66	40.66	40.69
13200.1	13400.1	39.76	39.82	39.90	39.69	39.73	39.78
13600.1	13800.1	46.36	46.60	46.78	40.50	40.58	40.64
14000.1	14200.1	47.09	47.49	47.81	41.84	41.92	42.00
14400.1	14600.1	41.50	41.67	41.81	47.21	47.43	47.57
14800.1	15000.1	37.12	37.24	37.33	46.69	46.85	46.94
15000.1	15200.1	35.19	35.33	35.43	41.50	41.56	41.62
15200.1	15400.1	34.45	34.62	34.75	39.07	39.13	39.17
15600.1	15800.1	34.20	34.39	34.55	37.82	37.87	37.92
16000.1	16200.1	34.08	34.30	34.48	37.06	37.15	37.22
16400.1	16600.1	33.85	34.05	34.23	35.50	35.58	35.65
16800.1	17000.1	34.30	34.50	34.67	35.70	35.76	35.81
17200.1	17400.1	35.79	35.95	36.09	39.07	39.09	39.11
17600.1	17800.1	37.21	37.31	37.42	42.28	42.29	42.30
18000.1	18200.1	38.02	38.11	38.18	43.73	43.77	43.80
18400.1	18600.1	38.03	38.12	38.20	43.63	43.67	43.69
18800.1	19000.1	37.68	37.78	37.85	42.61	42.63	42.66
19200.1	19400.1	37.51	37.60	37.65	44.40	44.43	44.45
19600.1	19800.1	36.93	36.99	36.99	50.37	50.42	50.50
20000.1	20200.1	37.33	37.42	37.44	54.29	54.28	54.33
20400.1	20600.1	38.91	38.99	39.00	50.13	50.27	50.39
20800.1	21000.1	40.28	40.31	40.31	46.38	46.58	46.80
21200.1	21400.1	40.22	40.29	40.32	42.92	43.20	43.46
21600.1	21800.1	37.88	37.97	38.02	40.32	40.55	40.78
22000.1	22200.1	37.29	37.48	37.63	39.97	40.19	40.44
22400.1	22600.1	39.39	39.60	39.77	40.91	41.10	41.34
22800.1	23000.1	41.62	41.88	42.06	40.44	40.57	40.76
23200.1	23400.1	42.44	42.92	43.38	39.49	39.55	39.67
23600.1	23800.1	41.82	42.35	42.82	39.79	39.94	40.12
23800.1	24000.1	41.33	41.78	42.25	40.14	40.30	40.50

Frequency Mixer

SMIQ-6243H+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	AMP UNBALANCE VS. RF FREQUENCY @IF = 200 MHz			PHASE UNBALANCE VS. RF FREQUENCY @IF = 200 MHz		
		@LO (dBm)			@LO (dBm)		
		+17	+18	+19	+17	+18	+19
6000.1	6200.1	1.19	1.03	0.82	0.32	0.16	0.37
6200.1	6400.1	1.07	0.92	0.76	3.46	2.64	2.12
6400.1	6600.1	0.52	0.36	0.20	5.74	4.54	3.65
6800.1	7000.1	0.17	0.01	-0.15	5.71	4.05	2.78
7200.1	7400.1	0.03	-0.09	-0.21	4.17	2.76	1.68
7600.1	7800.1	-0.03	-0.08	-0.15	3.13	2.63	2.15
8000.1	8200.1	-0.13	-0.17	-0.22	0.36	0.34	0.27
8400.1	8600.1	-0.08	-0.13	-0.20	1.16	0.43	0.12
8800.1	9000.1	-0.03	-0.07	-0.14	1.23	0.57	0.06
9200.1	9400.1	-0.06	-0.10	-0.15	1.47	0.80	0.19
9600.1	9800.1	-0.05	-0.11	-0.17	1.68	0.79	0.08
10000.1	10200.1	-0.04	-0.09	-0.14	1.20	0.39	0.30
10400.1	10600.1	-0.13	-0.14	-0.16	1.64	0.44	0.51
10800.1	11000.1	0.05	0.02	-0.02	0.25	0.79	1.70
11200.1	11400.1	0.10	0.10	0.08	0.34	0.46	1.26
11600.1	11800.1	0.04	0.06	0.07	2.77	3.22	3.78
12000.1	12200.1	-0.36	-0.33	-0.30	2.95	3.77	4.43
12400.1	12600.1	-0.07	-0.06	-0.05	0.31	0.82	1.81
12800.1	13000.1	-0.27	-0.22	-0.19	3.16	3.74	4.26
13200.1	13400.1	-0.16	-0.12	-0.10	2.40	2.80	3.36
13600.1	13800.1	-0.10	-0.05	-0.03	4.26	4.46	4.90
14000.1	14200.1	-0.15	-0.08	-0.05	5.24	5.39	5.81
14400.1	14600.1	-0.17	-0.10	-0.05	6.69	6.44	6.62
14800.1	15000.1	-0.17	-0.11	-0.07	8.56	7.90	7.75
15000.1	15200.1	-0.16	-0.11	-0.08	9.40	8.51	8.19
15200.1	15400.1	-0.09	-0.06	-0.04	10.42	9.35	8.73
15600.1	15800.1	-0.17	-0.12	-0.11	10.40	9.41	8.72
16000.1	16200.1	-0.10	-0.06	-0.05	10.78	9.67	8.79
16400.1	16600.1	-0.12	-0.05	-0.01	10.23	9.19	8.41
16800.1	17000.1	-0.08	-0.04	-0.01	8.75	7.56	6.70
17200.1	17400.1	-0.02	-0.02	-0.02	8.60	7.44	6.36
17600.1	17800.1	0.01	-0.01	-0.02	8.29	7.41	6.48
18000.1	18200.1	-0.02	-0.05	-0.06	7.42	6.68	5.84
18400.1	18600.1	-0.02	-0.05	-0.06	6.26	5.79	5.13
18800.1	19000.1	0.03	0.00	-0.02	4.83	4.67	4.21
19200.1	19400.1	0.13	0.06	0.03	3.60	3.57	3.17
19600.1	19800.1	0.20	0.13	0.07	3.21	3.00	2.48
20000.1	20200.1	0.28	0.17	0.12	2.40	2.09	1.65
20400.1	20600.1	0.27	0.20	0.16	1.13	1.00	0.92
20800.1	21000.1	0.17	0.12	0.11	0.77	0.42	0.45
21200.1	21400.1	0.21	0.15	0.13	1.93	1.32	1.01
21600.1	21800.1	0.00	-0.03	-0.03	1.02	0.36	0.42
22000.1	22200.1	0.15	0.10	0.08	3.44	2.35	1.66
22400.1	22600.1	0.29	0.25	0.21	3.04	2.21	1.62
22800.1	23000.1	0.21	0.16	0.13	2.69	2.03	1.47
23200.1	23400.1	0.10	0.07	0.03	2.31	1.97	1.61
23600.1	23800.1	-0.01	-0.03	-0.05	2.06	1.80	1.52
23800.1	24000.1	-0.08	-0.06	-0.06	2.24	2.00	1.66



Frequency Mixer

SMIQ-6243H+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	AMP UNBALANCE VS. RF FREQUENCY @IF = 2000 MHz			PHASE UNBALANCE VS. RF FREQUENCY @IF = 2000 MHz		
		@LO (dBm)			@LO (dBm)		
		+17	+18	+19	+17	+18	+19
6000.1	8000.1	0.59	0.50	0.39	7.55	6.62	5.80
6200.1	8200.1	0.44	0.36	0.26	7.07	6.46	5.88
6400.1	8400.1	0.35	0.29	0.21	6.56	6.15	5.76
6800.1	8800.1	0.10	0.08	0.03	5.11	5.27	5.42
7200.1	9200.1	0.05	0.04	0.02	3.45	3.60	3.78
7600.1	9600.1	0.05	0.02	0.00	2.73	3.24	3.63
8000.1	10000.1	0.13	0.06	0.01	2.77	3.64	4.33
8400.1	10400.1	0.24	0.20	0.15	1.87	2.83	3.63
8800.1	10800.1	0.18	0.17	0.13	3.06	3.86	4.59
9200.1	11200.1	0.11	0.11	0.10	3.17	4.19	5.10
9600.1	11600.1	0.12	0.11	0.08	3.34	3.61	4.00
10000.1	12000.1	-0.05	0.00	0.05	6.44	7.01	7.28
10400.1	12400.1	0.23	0.25	0.26	4.03	5.06	5.99
10800.1	12800.1	0.30	0.33	0.35	7.87	8.44	8.83
11200.1	13200.1	-0.20	-0.15	-0.11	7.26	7.64	7.90
11600.1	13600.1	0.28	0.32	0.34	6.50	6.77	7.05
12000.1	14000.1	-0.11	-0.03	0.02	7.94	8.00	8.14
12400.1	14400.1	0.09	0.16	0.21	8.39	8.41	8.54
12800.1	14800.1	0.16	0.23	0.28	10.07	9.65	9.42
13200.1	15200.1	0.29	0.32	0.34	11.23	10.58	10.09
13600.1	15600.1	0.41	0.46	0.47	12.00	11.31	10.71
14000.1	16000.1	0.41	0.46	0.49	12.37	11.45	10.69
14400.1	16400.1	0.37	0.40	0.42	13.37	12.38	11.41
14800.1	16800.1	0.31	0.31	0.31	12.89	11.96	11.05
15000.1	17000.1	0.35	0.34	0.33	13.11	12.09	11.10
15200.1	17200.1	0.29	0.28	0.28	12.99	11.92	10.89
15600.1	17600.1	0.21	0.22	0.23	12.38	11.40	10.46
16000.1	18000.1	0.19	0.18	0.18	11.25	10.43	9.67
16400.1	18400.1	0.22	0.20	0.19	10.04	9.26	8.55
16800.1	18800.1	0.24	0.21	0.20	9.05	8.32	7.69
17200.1	19200.1	0.24	0.21	0.21	8.20	7.68	7.13
17600.1	19600.1	0.24	0.20	0.18	6.83	6.53	6.08
18000.1	20000.1	0.35	0.26	0.22	5.60	5.11	4.65
18400.1	20400.1	0.30	0.20	0.16	3.91	3.60	3.41
18800.1	20800.1	0.29	0.21	0.18	2.47	2.53	2.60
19200.1	21200.1	0.38	0.31	0.29	1.29	1.62	1.91
19600.1	21600.1	0.43	0.36	0.33	0.65	0.99	1.33
20000.1	22000.1	0.37	0.29	0.25	0.53	0.65	1.09
20400.1	22400.1	0.51	0.46	0.42	0.51	0.77	1.16
20800.1	22800.1	0.17	0.14	0.13	0.95	1.28	1.68
21200.1	23200.1	0.49	0.45	0.42	1.18	0.69	0.48
21600.1	23600.1	0.64	0.58	0.53	0.62	0.94	1.35
22000.1	24000.1	0.70	0.64	0.58	1.39	1.61	1.87
22400.1	24400.1	0.68	0.63	0.59	2.62	2.55	2.44
22800.1	24800.1	0.55	0.53	0.53	2.64	2.43	2.17
23200.1	25200.1	0.78	0.70	0.65	0.37	0.63	0.73
23600.1	25600.1	1.64	1.29	1.08	2.84	2.78	2.46
24000.1	26000.1	2.03	1.47	1.21	8.13	7.93	6.98

Frequency Mixer

SMIQ-6243H+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	AMP UNBALANCE VS. RF FREQUENCY @IF = 3000 MHz			PHASE UNBALANCE VS. RF FREQUENCY @IF = 3000 MHz		
		@LO (dBm)			@LO (dBm)		
		+17	+18	+19	+17	+18	+19
6000.1	9000.1	0.62	0.56	0.48	6.18	6.06	5.99
6200.1	9200.1	0.56	0.51	0.44	5.23	5.16	5.15
6400.1	9400.1	0.56	0.51	0.46	5.51	5.57	5.64
6800.1	9800.1	0.60	0.56	0.52	4.79	5.32	5.73
7200.1	10200.1	0.56	0.50	0.44	4.36	5.14	5.79
7600.1	10600.1	0.63	0.57	0.52	4.23	5.19	6.04
8000.1	11000.1	0.62	0.57	0.52	4.53	5.24	5.90
8400.1	11400.1	0.50	0.48	0.45	6.22	7.00	7.69
8800.1	11800.1	0.54	0.50	0.46	6.77	7.05	7.36
9200.1	12200.1	0.51	0.51	0.51	7.80	8.51	8.93
9600.1	12600.1	0.29	0.32	0.35	7.01	7.87	8.61
10000.1	13000.1	0.65	0.64	0.63	7.11	7.68	8.12
10400.1	13400.1	0.47	0.49	0.49	10.60	10.73	10.84
10800.1	13800.1	0.00	0.06	0.09	9.03	9.13	9.30
11200.1	14200.1	0.50	0.56	0.58	10.38	10.35	10.42
11600.1	14600.1	0.20	0.27	0.31	9.77	9.61	9.58
12000.1	15000.1	0.43	0.46	0.48	10.37	10.10	9.92
12400.1	15400.1	0.54	0.57	0.57	11.86	11.26	10.85
12800.1	15800.1	0.53	0.57	0.58	12.77	11.82	11.04
13200.1	16200.1	0.57	0.58	0.57	13.02	12.11	11.17
13600.1	16600.1	0.66	0.66	0.65	12.92	12.22	11.46
14000.1	17000.1	0.67	0.66	0.64	13.52	12.66	11.81
14400.1	17400.1	0.75	0.72	0.68	13.19	12.23	11.34
14800.1	17800.1	0.64	0.62	0.60	13.19	12.24	11.38
15000.1	18000.1	0.58	0.57	0.56	13.09	12.14	11.27
15200.1	18200.1	0.51	0.49	0.48	12.19	11.37	10.63
15600.1	18600.1	0.58	0.50	0.47	11.44	10.77	10.13
16000.1	19000.1	0.61	0.52	0.47	11.35	10.65	10.00
16400.1	19400.1	0.54	0.45	0.40	10.46	9.81	9.10
16800.1	19800.1	0.48	0.39	0.33	9.08	8.39	7.60
17200.1	20200.1	0.58	0.43	0.37	7.46	7.08	6.71
17600.1	20600.1	0.64	0.50	0.44	5.84	5.82	5.78
18000.1	21000.1	0.59	0.49	0.44	4.07	4.35	4.55
18400.1	21400.1	0.63	0.51	0.46	2.49	3.17	3.66
18800.1	21800.1	0.65	0.54	0.48	1.83	2.60	3.20
19200.1	22200.1	0.69	0.59	0.52	1.77	2.49	3.20
19600.1	22600.1	0.70	0.61	0.54	1.14	1.61	2.17
20000.1	23000.1	0.89	0.79	0.70	2.21	2.76	3.28
20400.1	23400.1	0.55	0.50	0.43	0.66	0.98	1.38
20800.1	23800.1	0.88	0.82	0.76	0.65	0.84	1.17
21000.1	24000.1	0.93	0.88	0.82	0.89	1.08	1.31
21600.1	24600.1	0.98	0.91	0.85	3.18	3.08	2.95
22000.1	25000.1	0.92	0.82	0.76	4.15	4.01	3.77
22400.1	25400.1	0.98	0.80	0.68	3.00	2.63	2.17
22800.1	25800.1	2.01	1.55	1.29	4.93	4.25	3.54
23200.1	26200.1	5.93	3.12	2.23	7.97	9.50	9.02
23600.1	26600.1	11.00	4.14	2.39	5.32	13.25	13.85
24000.1	27000.1	25.70	15.88	5.27	248.06	4.96	12.48



Frequency Mixer

SMIQ-6243H+

Typical Performance Data

RF (IN) (MHz)	GAIN COMPRESSION (I)			GAIN COMPRESSION (Q)			GAIN COMPRESSION (I)			GAIN COMPRESSION (Q)			GAIN COMPRESSION (I)			GAIN COMPRESSION (Q)					
	IF = 200MHz									IF = 2000MHz						IF = 3000MHz					
	@LO (dBm)			@LO (dBm)			@LO (dBm)			@LO (dBm)			@LO (dBm)			@LO (dBm)					
	+17	+18	+19	+17	+18	+19	+17	+18	+19	+17	+18	+19	+17	+18	+19	+17	+18	+19			
6000.1	0.96	0.96	0.93	0.83	0.84	0.83	0.30	0.29	0.29	0.33	0.33	0.31	0.47	0.44	0.43	0.57	0.51	0.47			
6200.1	1.08	1.05	1.00	0.95	0.91	0.85	0.38	0.36	0.34	0.46	0.43	0.41	0.56	0.53	0.50	0.71	0.63	0.57			
6400.1	0.84	0.80	0.75	0.89	0.82	0.75	0.45	0.44	0.41	0.58	0.51	0.47	0.64	0.60	0.55	0.80	0.71	0.63			
6800.1	0.27	0.28	0.27	0.34	0.34	0.32	0.46	0.44	0.42	0.66	0.59	0.54	0.68	0.64	0.59	0.80	0.73	0.66			
7200.1	0.20	0.19	0.19	0.30	0.28	0.26	0.50	0.47	0.45	0.67	0.60	0.55	0.60	0.57	0.54	0.68	0.64	0.60			
7600.1	0.25	0.26	0.26	0.34	0.31	0.28	0.52	0.47	0.44	0.67	0.60	0.53	0.44	0.43	0.41	0.46	0.44	0.42			
8000.1	0.29	0.29	0.30	0.38	0.36	0.35	0.53	0.51	0.48	0.62	0.59	0.57	0.29	0.30	0.28	0.29	0.29	0.28			
8400.1	0.31	0.32	0.33	0.31	0.31	0.31	0.37	0.37	0.38	0.40	0.40	0.41	0.27	0.25	0.25	0.27	0.27	0.28			
8800.1	0.32	0.32	0.32	0.33	0.31	0.30	0.26	0.27	0.27	0.27	0.28	0.28	0.27	0.28	0.27	0.25	0.27	0.28			
9200.1	0.31	0.31	0.31	0.35	0.33	0.32	0.36	0.35	0.33	0.40	0.38	0.36	0.10	0.17	0.21	0.14	0.19	0.23			
9600.1	0.36	0.35	0.35	0.37	0.35	0.34	0.34	0.34	0.33	0.37	0.37	0.37	0.03	0.08	0.14	0.07	0.10	0.15			
10000.1	0.35	0.36	0.36	0.33	0.33	0.33	0.15	0.21	0.25	0.26	0.30	0.32	0.14	0.14	0.16	0.03	0.05	0.09			
10400.1	0.30	0.31	0.32	0.27	0.28	0.29	0.15	0.18	0.21	0.11	0.15	0.19	0.09	0.09	0.11	0.05	0.06	0.07			
10800.1	0.31	0.31	0.32	0.26	0.27	0.28	0.12	0.13	0.15	0.09	0.10	0.12	0.09	0.09	0.11	0.15	0.14	0.15			
11200.1	0.31	0.32	0.33	0.26	0.27	0.28	0.07	0.09	0.12	0.13	0.14	0.16	0.15	0.15	0.15	0.16	0.14	0.14			
11600.1	0.21	0.25	0.27	0.20	0.23	0.24	0.10	0.12	0.14	0.09	0.11	0.13	0.21	0.22	0.22	0.23	0.23	0.22			
12000.1	0.17	0.19	0.21	0.17	0.20	0.22	0.07	0.10	0.12	0.11	0.12	0.14	0.24	0.25	0.24	0.25	0.24	0.23			
12400.1	0.24	0.24	0.25	0.17	0.19	0.21	0.17	0.19	0.20	0.19	0.19	0.20	0.26	0.25	0.24	0.28	0.26	0.25			
12800.1	0.19	0.20	0.21	0.15	0.17	0.18	0.16	0.19	0.20	0.19	0.20	0.21	0.27	0.25	0.25	0.28	0.26	0.25			
13200.1	0.26	0.26	0.26	0.20	0.21	0.22	0.22	0.23	0.23	0.19	0.21	0.22	0.35	0.31	0.28	0.30	0.27	0.24			
13600.1	0.40	0.41	0.41	0.36	0.36	0.36	0.38	0.37	0.38	0.33	0.33	0.34	0.60	0.53	0.49	0.54	0.48	0.44			
14000.1	0.41	0.42	0.42	0.37	0.37	0.37	0.38	0.35	0.34	0.40	0.37	0.35	0.54	0.50	0.48	0.52	0.48	0.46			
14400.1	0.36	0.38	0.39	0.34	0.34	0.34	0.42	0.37	0.35	0.43	0.39	0.37	0.55	0.49	0.46	0.48	0.44	0.43			
14800.1	0.35	0.36	0.37	0.35	0.35	0.34	0.51	0.45	0.40	0.47	0.42	0.39	0.52	0.47	0.44	0.47	0.43	0.40			
15000.1	0.33	0.34	0.35	0.33	0.33	0.33	0.53	0.47	0.43	0.47	0.43	0.39	0.51	0.46	0.44	0.48	0.43	0.41			
15200.1	0.35	0.35	0.36	0.31	0.32	0.34	0.51	0.47	0.44	0.48	0.44	0.41	0.52	0.49	0.48	0.51	0.47	0.45			
15600.1	0.34	0.33	0.33	0.28	0.29	0.30	0.47	0.43	0.41	0.47	0.44	0.42	0.48	0.49	0.51	0.46	0.48	0.49			
16000.1	0.35	0.34	0.33	0.31	0.30	0.29	0.47	0.45	0.43	0.46	0.44	0.43	0.43	0.46	0.47	0.42	0.45	0.46			
16400.1	0.28	0.28	0.29	0.26	0.26	0.25	0.36	0.39	0.40	0.36	0.39	0.40	0.39	0.41	0.41	0.39	0.41	0.41			
16800.1	0.28	0.27	0.27	0.26	0.25	0.24	0.35	0.37	0.37	0.36	0.38	0.38	0.39	0.38	0.36	0.40	0.40	0.37			
17200.1	0.29	0.27	0.26	0.26	0.24	0.24	0.36	0.37	0.37	0.38	0.40	0.40	0.38	0.35	0.34	0.41	0.37	0.35			
17600.1	0.24	0.26	0.27	0.22	0.24	0.26	0.39	0.39	0.37	0.40	0.41	0.40	0.37	0.35	0.34	0.39	0.36	0.35			
18000.1	0.24	0.27	0.29	0.24	0.27	0.30	0.42	0.41	0.39	0.43	0.42	0.41	0.37	0.36	0.35	0.39	0.37	0.35			
18400.1	0.29	0.31	0.32	0.29	0.30	0.32	0.41	0.39	0.38	0.44	0.41	0.40	0.35	0.34	0.34	0.36	0.35	0.34			
18800.1	0.28	0.29	0.29	0.26	0.26	0.26	0.32	0.30	0.30	0.36	0.34	0.32	0.25	0.25	0.25	0.24	0.26	0.26			
19200.1	0.30	0.31	0.31	0.28	0.29	0.29	0.33	0.30	0.29	0.35	0.32	0.31	0.25	0.25	0.25	0.25	0.26	0.26			
19600.1	0.34	0.33	0.32	0.34	0.33	0.32	0.33	0.31	0.30	0.37	0.33	0.31	0.28	0.27	0.27	0.30	0.29	0.28			
20000.1	0.35	0.33	0.32	0.36	0.33	0.32	0.32	0.30	0.29	0.36	0.33	0.31	0.31	0.30	0.29	0.29	0.29	0.29			
20400.1	0.36	0.34	0.33	0.33	0.30	0.29	0.32	0.30	0.28	0.33	0.31	0.29	0.25	0.26	0.26	0.25	0.25	0.26			
20800.1	0.36	0.34	0.33	0.39	0.34	0.32	0.26	0.27	0.27	0.30	0.30	0.29	0.25	0.27	0.27	0.24	0.24	0.25			
21200.1	0.37	0.33	0.31	0.37	0.32	0.29	0.22	0.23	0.24	0.24	0.24	0.25	0.28	0.28	0.29	0.27	0.27	0.27			
21600.1	0.31	0.30	0.28	0.31	0.27	0.25	0.24	0.23	0.24	0.24	0.23	0.23	0.28	0.27	0.27	0.33	0.29	0.27			
22000.1	0.27	0.27	0.27	0.25	0.24	0.23	0.31	0.29	0.28	0.31	0.29	0.28	0.30	0.29	0.28	0.46	0.37	0.33			
22400.1	0.30	0.30	0.29	0.27	0.26	0.26	0.35	0.33	0.32	0.39	0.37	0.35	0.31	0.29	0.28	0.78	0.47	0.35			
22800.1	0.31	0.30	0.29	0.29	0.28	0.27	0.30	0.30	0.29	0.42	0.38	0.36	0.32	0.27	0.26	0.99	0.63	0.36			
23200.1	0.29	0.28	0.28	0.27	0.25	0.24	0.24	0.24	0.24	0.39	0.33	0.30	0.32	0.29	0.27	0.82	0.77	0.40			
23600.1	0.27	0.27	0.27	0.29	0.27	0.26	0.34	0.30	0.29	0.64	0.39	0.29	0.31	0.34	0.33	5.10	0.45	0.87			
24000.1	0.18	0.19	0.20	0.22	0.21	0.20	0.34	0.30	0.28	0.88	0.51	0.30	0.72	0.34	0.23	13.21	17.41	6.80			

Frequency Mixer

SMIQ-6243H+

Typical Performance Data

RF (IN) (MHz)	Input IP3 Lower Side Band (I)			Input IP3 Lower Side Band (Q)			Input IP3 Upper Side Band (I)			Input IP3 Upper Side Band (Q)		
	IF = 200MHz											
	@LO (dBm)			@LO (dBm)			@LO (dBm)			@LO (dBm)		
	+17	+18	+19	+17	+18	+19	+17	+18	+19	+17	+18	+19
6000.1	18.62	19.00	19.15	15.82	16.50	17.24	17.88	18.47	18.79	15.44	16.00	16.65
6200.1	17.43	17.75	18.00	15.44	15.97	16.43	17.24	17.61	18.03	15.11	15.62	16.03
6400.1	17.07	17.20	17.46	15.13	15.72	16.16	17.06	17.30	17.61	15.00	15.63	16.05
6800.1	17.65	18.08	18.42	14.11	14.90	15.68	17.84	18.39	18.80	14.23	15.07	15.89
7200.1	18.53	18.93	19.21	14.90	15.62	16.39	18.59	19.05	19.34	15.06	15.77	16.54
7600.1	18.94	19.38	19.64	16.30	16.69	17.32	19.07	19.41	19.68	16.60	17.10	17.66
8000.1	20.04	20.47	20.69	17.83	18.27	18.85	20.44	20.83	21.04	18.13	18.62	19.25
8400.1	21.53	21.98	22.67	20.52	20.64	21.10	21.58	22.32	23.07	20.70	20.87	21.28
8800.1	22.87	23.10	23.75	23.23	22.73	22.66	22.39	22.65	23.30	23.04	22.43	22.26
9200.1	28.58	26.96	25.24	26.17	26.68	25.70	27.78	26.05	24.65	25.19	25.60	24.91
9600.1	27.18	27.47	27.69	27.50	28.42	28.36	25.85	26.43	26.39	26.78	26.92	27.30
10000.1	27.39	27.65	28.18	28.60	30.41	30.53	25.27	26.27	26.03	25.54	26.23	26.77
10400.1	22.59	23.26	24.12	22.28	22.95	23.59	22.47	23.21	23.83	22.21	22.93	23.62
10800.1	22.85	22.74	23.08	22.20	22.16	22.22	22.99	22.92	23.07	22.62	22.28	22.58
11200.1	22.84	22.31	22.24	23.08	22.84	22.52	23.25	22.61	22.43	23.78	23.09	22.94
11600.1	22.44	21.81	21.75	21.79	21.47	21.45	23.26	22.37	22.29	22.37	21.93	21.89
12000.1	24.37	23.46	22.63	23.27	22.15	22.01	24.32	23.54	22.68	23.52	22.60	22.17
12400.1	23.20	23.22	22.97	26.22	26.18	25.04	23.04	23.17	23.03	25.98	26.04	25.38
12800.1	21.60	22.25	22.76	21.87	22.12	22.38	21.72	22.27	22.72	21.82	22.05	22.41
13200.1	19.94	20.59	21.07	20.76	21.10	21.50	19.85	20.55	21.17	20.79	21.10	21.53
13600.1	19.89	20.79	21.40	20.69	21.19	21.64	19.88	20.68	21.41	20.60	21.18	21.60
14000.1	19.70	20.88	21.63	20.90	21.61	22.28	19.70	20.83	21.47	20.79	21.58	22.11
14400.1	19.80	21.04	21.86	21.23	22.04	22.77	19.82	20.99	21.98	21.21	22.01	22.83
14800.1	20.69	21.99	22.79	21.66	22.69	23.33	20.71	22.04	23.02	21.73	22.98	23.68
15000.1	21.29	22.40	23.31	21.98	22.96	23.71	21.43	22.67	23.56	22.10	23.20	24.18
15200.1	22.01	22.72	23.60	21.96	22.75	23.75	22.31	23.08	23.92	22.09	23.23	24.14
15600.1	24.68	24.05	24.12	23.91	23.66	24.09	24.92	24.15	24.64	24.16	23.81	24.05
16000.1	32.56	28.71	27.29	29.03	27.40	25.72	33.39	29.97	28.01	30.54	28.30	26.39
16400.1	29.16	34.67	30.38	34.25	32.87	29.87	30.47	34.62	31.83	34.23	31.74	29.25
16800.1	29.84	34.09	32.28	33.93	35.71	30.65	28.49	33.69	35.93	30.34	34.07	32.51
17200.1	28.71	30.35	33.35	30.49	31.53	33.05	28.07	31.12	33.49	29.48	33.80	33.72
17600.1	30.13	31.42	31.97	29.53	29.25	29.50	31.45	34.21	33.16	29.24	29.75	30.11
18000.1	24.95	25.24	25.85	24.06	24.71	25.62	25.17	25.39	25.77	24.11	24.85	25.73
18400.1	24.95	25.10	26.31	24.52	24.95	25.76	24.64	24.73	25.94	24.23	24.66	25.39
18800.1	25.47	26.08	27.93	25.97	26.17	27.48	25.56	26.01	27.87	25.52	26.30	27.25
19200.1	25.14	27.19	28.93	24.83	26.22	28.05	24.98	27.06	28.95	24.85	26.17	28.60
19600.1	27.29	29.12	30.49	25.18	27.81	29.15	27.35	28.90	29.80	24.96	27.63	28.77
20000.1	26.27	27.83	28.69	25.06	27.71	29.31	26.58	27.69	28.57	25.33	27.09	29.60
20400.1	28.25	29.54	29.71	26.02	28.23	29.37	28.20	30.29	30.87	26.44	29.18	29.71
20800.1	27.34	28.50	29.86	26.59	27.81	28.78	28.01	29.39	30.25	26.88	29.21	31.23
21200.1	26.06	26.48	27.31	26.21	27.82	28.24	26.33	27.13	28.19	26.55	27.87	28.98
21600.1	27.33	27.28	27.35	27.73	27.93	27.94	27.39	27.21	27.58	27.67	27.85	27.98
22000.1	28.67	28.00	28.11	28.39	28.16	27.77	28.61	28.04	28.48	29.12	27.98	27.73
22400.1	27.82	27.68	27.88	28.05	27.34	27.24	28.19	27.65	27.82	27.40	27.20	27.17
22800.1	28.77	28.12	28.41	29.50	28.53	28.54	27.82	27.67	28.02	29.82	27.85	27.49
23200.1	29.39	29.99	30.54	29.49	29.56	30.04	31.77	31.66	31.14	30.23	31.17	29.62
23600.1	27.57	30.10	31.22	27.22	29.23	30.94	28.19	30.64	33.76	27.18	27.88	31.95
24000.1	32.24	33.85	33.54	29.43	30.11	32.88	31.31	33.35	36.21	28.97	29.77	33.52



Frequency Mixer

SMIQ-6243H+

Typical Performance Data

RF (IN) (MHz)	Input IP3 Lower Side Band (I)			Input IP3 Lower Side Band (Q)			Input IP3 Upper Side Band (I)			Input IP3 Upper Side Band (Q)		
	IF = 2000MHz											
	@LO (dBm)			@LO (dBm)			@LO (dBm)			@LO (dBm)		
	+17	+18	+19	+17	+18	+19	+17	+18	+19	+17	+18	+19
6000.1	19.44	20.04	20.54	16.61	17.33	18.20	18.66	19.01	19.48	31.29	32.57	32.81
6200.1	19.50	19.95	20.37	17.07	17.65	18.38	18.88	19.22	19.55	30.04	31.19	32.18
6400.1	20.09	20.39	20.69	18.26	18.82	19.33	19.55	19.87	20.07	32.77	34.18	33.13
6800.1	21.29	21.62	22.07	19.26	19.52	19.78	21.11	21.60	22.13	33.07	34.40	34.22
7200.1	22.19	22.15	22.33	20.50	20.91	21.15	22.23	22.12	22.13	31.72	32.95	33.43
7600.1	21.99	22.40	22.66	20.44	21.08	21.91	22.86	23.16	23.50	33.68	33.54	34.00
8000.1	21.15	21.58	21.98	19.69	20.24	20.80	21.68	22.11	22.49	33.24	33.26	32.33
8400.1	21.14	21.63	21.93	20.65	21.06	21.39	21.66	22.10	22.33	33.59	32.12	31.83
8800.1	20.94	21.54	22.12	20.45	21.02	21.67	21.10	21.65	22.24	32.57	32.69	30.91
9200.1	19.56	19.89	20.25	19.17	19.47	19.76	19.48	19.78	20.20	32.65	30.83	30.65
9600.1	21.01	20.44	20.40	20.59	20.46	20.66	20.79	20.31	20.30	33.82	32.50	31.67
10000.1	23.68	22.55	21.62	23.02	21.92	21.72	23.18	21.94	21.24	32.64	31.78	31.42
10400.1	22.79	22.72	22.39	23.68	23.65	23.30	22.77	22.73	22.24	32.64	32.33	31.13
10800.1	23.47	24.33	24.83	22.63	22.93	23.07	24.09	24.79	25.38	30.50	29.27	31.23
11200.1	21.59	22.18	22.67	21.65	21.86	22.10	22.07	22.75	23.30	29.56	30.07	29.70
11600.1	21.39	21.96	22.48	21.95	22.54	22.64	21.66	22.32	23.01	28.54	30.21	30.14
12000.1	20.66	21.32	21.82	21.50	22.06	22.43	20.85	21.55	22.11	27.92	28.86	30.42
12400.1	20.40	21.50	22.10	22.05	22.71	23.04	20.42	21.55	22.12	27.55	28.06	29.44
12800.1	20.48	21.48	22.12	21.43	22.17	22.75	20.58	21.44	22.12	27.72	28.47	29.46
13200.1	21.38	21.92	22.17	21.72	22.15	22.72	21.38	21.88	22.29	27.37	28.26	29.88
13600.1	22.51	22.82	23.01	22.35	22.55	22.87	22.42	22.63	22.83	26.83	27.47	28.60
14000.1	24.53	23.93	23.82	23.96	23.60	23.51	24.51	23.82	23.45	26.71	27.89	28.62
14400.1	26.22	25.91	25.22	24.26	24.51	24.14	26.41	26.00	25.44	27.53	29.03	30.62
14800.1	25.33	25.83	25.88	24.51	24.95	25.09	25.49	26.31	26.69	28.15	30.06	31.47
15000.1	25.01	25.24	25.95	24.43	25.02	25.01	24.93	25.70	26.03	28.49	29.23	30.65
15200.1	25.39	25.64	25.90	24.74	25.22	25.24	25.63	26.11	26.12	29.42	30.34	30.51
15600.1	26.27	26.46	26.79	24.62	25.18	25.34	26.12	27.10	27.10	31.33	32.12	32.70
16000.1	26.03	25.97	25.54	25.24	24.68	24.67	26.89	26.72	26.12	28.42	33.59	34.79
16400.1	25.56	24.92	24.54	24.41	23.79	24.04	25.78	24.99	24.13	24.86	30.91	31.80
16800.1	22.34	22.68	24.05	21.62	22.07	23.34	22.92	23.14	24.41	23.36	27.82	29.70
17200.1	22.36	23.71	25.40	21.63	22.65	24.54	22.45	23.97	25.82	23.64	27.40	28.37
17600.1	23.95	26.00	27.96	22.43	23.89	26.01	23.92	26.14	27.09	23.77	26.93	27.88
18000.1	25.06	26.41	26.96	23.34	25.01	26.14	25.23	27.12	27.64	20.68	24.44	26.71
18400.1	26.78	27.85	28.55	25.10	26.40	26.99	26.86	27.64	27.96	17.98	20.78	24.51
18800.1	26.81	28.28	28.98	24.74	26.22	28.06	26.70	28.30	27.62	18.29	18.89	23.31
19200.1	25.79	26.88	28.10	24.75	26.00	26.69	26.04	27.26	28.22	18.00	19.34	23.64
19600.1	25.10	26.54	27.15	24.69	25.62	27.06	25.31	26.16	27.21	18.25	19.82	24.18
20000.1	26.74	26.58	27.46	26.10	26.24	26.54	26.50	26.79	26.99	15.33	18.16	23.16
20400.1	28.96	30.21	29.33	28.47	30.65	30.26	31.01	31.42	30.62	10.55	18.64	20.45
20800.1	29.41	32.76	34.66	30.49	31.42	32.74	29.04	31.11	33.40	10.64	15.68	18.58
21200.1	32.30	32.21	32.08	33.53	31.87	31.85	32.12	32.02	33.18	11.53	12.82	17.85
21600.1	29.57	30.30	29.89	30.94	31.34	30.53	30.46	30.35	30.01	15.15	11.28	19.53
22000.1	29.00	28.82	29.07	30.22	29.43	30.18	29.64	28.89	30.15	22.74	15.90	11.99
22400.1	28.12	28.63	29.09	27.68	28.21	28.72	27.88	28.72	29.69	30.59	22.84	16.27
22800.1	30.84	31.32	31.73	26.35	27.56	27.88	33.34	30.96	32.01	31.84	26.31	19.21
23200.1	34.21	32.38	32.44	27.32	29.39	29.71	33.56	33.49	32.96	31.91	26.77	19.55
23600.1	28.36	29.14	30.95	23.13	28.84	30.56	28.03	29.80	30.66	29.99	29.80	21.30
24000.1	26.97	27.47	27.79	20.59	24.39	25.85	27.05	27.86	28.63	30.27	31.14	28.36



Frequency Mixer

SMIQ-6243H+

Typical Performance Data

RF (IN) (MHz)	Input IP3 Lower Side Band (I)			Input IP3 Lower Side Band (Q)			Input IP3 Upper Side Band (I)			Input IP3 Upper Side Band (Q)		
	IF = 3000MHz											
	@LO (dBm)			@LO (dBm)			@LO (dBm)			@LO (dBm)		
	+17	+18	+19	+17	+18	+19	+17	+18	+19	+17	+18	+19
6000.1	22.38	22.90	23.29	21.10	21.51	21.96	20.64	21.18	21.70	18.96	19.44	19.84
6200.1	21.28	21.84	22.08	19.99	20.60	20.98	20.42	20.74	21.16	19.00	19.59	19.94
6400.1	20.91	21.49	21.75	19.28	19.99	20.61	20.59	21.19	21.30	18.95	19.65	20.23
6800.1	19.40	19.95	20.49	18.01	18.76	19.41	19.90	20.51	21.03	18.53	19.33	20.06
7200.1	19.41	19.74	19.99	18.74	19.13	19.46	19.89	20.14	20.34	19.40	19.66	19.93
7600.1	19.68	20.09	20.47	19.53	19.73	20.24	20.09	20.60	20.82	19.87	20.37	20.74
8000.1	19.03	19.64	20.17	18.39	18.92	19.56	19.11	19.65	20.18	18.41	19.11	19.73
8400.1	18.30	18.61	18.97	17.77	18.00	18.27	18.21	18.50	18.91	17.69	17.92	18.17
8800.1	20.18	19.60	19.68	19.34	19.29	19.50	20.14	19.58	19.60	19.19	19.07	19.38
9200.1	23.57	22.89	21.48	23.36	22.15	21.39	23.57	22.61	21.35	23.37	21.83	20.94
9600.1	21.72	22.36	23.04	23.00	23.72	24.37	21.51	22.15	22.78	22.72	23.45	23.58
10000.1	22.20	23.15	24.21	22.02	22.84	23.33	22.16	23.24	23.93	22.14	22.81	23.15
10400.1	23.18	23.94	24.42	21.76	22.39	22.90	24.02	24.57	24.99	22.41	23.08	23.33
10800.1	21.82	22.48	23.04	22.56	22.96	23.29	22.05	22.60	23.30	22.67	23.35	23.64
11200.1	21.67	22.54	23.07	21.98	22.62	23.18	22.19	22.88	23.51	22.54	23.15	23.53
11600.1	20.79	21.76	22.19	21.93	22.49	22.68	20.87	21.74	22.30	22.07	22.81	23.19
12000.1	21.75	22.24	22.77	22.35	22.88	23.51	21.72	22.45	22.88	22.78	23.24	23.68
12400.1	21.70	22.15	22.50	22.49	22.99	23.25	21.64	22.26	22.64	22.54	22.94	23.22
12800.1	22.74	22.52	22.79	23.05	23.42	23.27	22.88	22.72	22.75	23.12	23.46	23.28
13200.1	23.72	23.91	23.39	23.39	23.59	23.23	23.79	23.74	23.42	23.58	23.64	23.65
13600.1	22.62	23.18	23.48	22.00	22.72	22.96	22.49	23.05	23.23	21.80	22.53	22.88
14000.1	22.59	23.15	23.19	21.82	22.09	22.47	22.41	23.05	23.20	21.67	22.17	22.61
14400.1	22.68	23.37	23.77	22.62	23.16	23.45	23.05	23.60	23.77	22.61	23.11	23.62
14800.1	23.39	24.23	24.59	23.18	23.52	23.94	23.64	24.31	24.67	23.35	23.96	24.63
15000.1	23.94	24.08	24.25	23.37	23.65	24.09	24.38	24.47	24.63	23.98	23.93	24.24
15200.1	24.07	23.70	23.42	23.42	23.26	23.39	24.30	23.85	23.78	23.84	23.76	23.61
15600.1	22.02	21.54	21.79	21.77	21.48	21.48	22.24	21.61	21.93	21.92	21.39	21.82
16000.1	20.08	20.47	21.84	19.30	19.85	20.93	20.24	20.79	22.22	19.46	20.14	21.22
16400.1	20.37	21.96	23.78	19.36	20.88	22.66	20.45	22.16	24.15	19.49	20.89	22.70
16800.1	24.17	26.13	26.92	21.95	24.03	26.01	24.74	27.00	27.84	22.36	24.31	26.31
17200.1	25.56	26.74	26.79	23.05	24.71	25.98	25.99	27.24	27.82	23.41	25.32	26.27
17600.1	25.83	27.56	27.33	23.50	24.79	26.55	25.78	27.05	27.11	23.51	24.89	25.51
18000.1	26.02	26.50	27.06	24.17	24.99	26.11	25.86	26.98	27.26	24.30	25.54	26.50
18400.1	25.81	26.71	27.81	24.25	25.39	26.31	25.86	26.50	27.47	25.00	25.38	25.99
18800.1	27.40	27.20	27.64	26.16	26.55	27.30	27.35	27.87	27.44	26.33	26.25	27.37
19200.1	32.01	30.58	30.18	30.11	28.38	27.69	32.96	29.44	29.44	29.18	28.95	28.83
19600.1	32.45	32.90	31.91	29.88	30.99	29.20	31.95	32.86	31.17	30.80	30.33	29.34
20000.1	29.43	31.21	31.25	29.82	32.29	29.99	29.54	31.37	32.11	30.22	32.72	30.81
20400.1	34.20	33.12	33.62	32.41	33.71	30.85	33.31	33.32	33.35	31.91	32.95	31.57
20800.1	32.09	30.58	31.15	32.46	32.00	31.10	30.15	30.44	32.71	30.12	29.57	30.35
21000.1	28.02	28.40	28.52	30.74	30.59	29.27	29.16	28.84	29.83	29.52	29.70	30.04
21600.1	29.11	28.78	28.69	28.11	27.94	29.13	28.87	29.68	29.58	28.38	28.84	29.79
22000.1	28.63	30.24	29.16	24.89	26.68	27.69	28.93	29.45	29.57	24.62	26.18	27.70
22400.1	31.06	32.25	32.82	24.93	28.43	29.94	30.88	32.70	31.31	25.02	28.33	32.41
22800.1	27.58	29.22	28.46	21.61	27.21	31.08	28.01	28.22	28.75	21.73	27.51	28.91
23200.1	23.54	25.59	26.77	14.40	17.08	21.66	23.98	25.43	27.21	14.36	17.22	22.08
23600.1	23.64	25.82	28.69	9.85	14.71	19.87	23.46	25.90	27.64	9.81	14.73	20.02
24000.1	20.02	20.94	24.50	4.13	3.05	13.29	20.17	20.92	24.54	4.08	3.10	13.33

