

Performance Matrix:

All measurements have been corrected for PCB losses

LNA Performance					
High Gain, High Linearity Modes					
	Measured	MIN	TYP	MAX	UNITS
GSM LNA Gain	14.74	14	15.7	17	dB
GSM LNA Noise Fig.	1.3	°	1.4	1.6	dB
GSM LNA IIP3	11.76	9.5	12	°	dBm
DCS LNA Gain	15.07	13.8	15.3	16.9	dB
DCS LNA Noise Fig.	1.33	°	1.4	1.7	dB
DCS LNA IIP3	8.73	5	7.7	°	dBm
High Gain, Low Linearity Idle Modes and FM Mode					
GSM LNA Gain	13.6	13	14.7	16.5	dB
GSM LNA Noise Fig.	1.3	°	1.4	1.7	dB
GSM LNA IIP3	5.85	2.5	5.5	°	dBm
DCS LNA Gain	14.27	13	14.5	16.5	dB
DCS LNA Noise Fig.	1.37	°	1.4	1.7	dB
DCS LNA IIP3	6.98	2.5	7.5	°	dBm
Low Gain Modes					
GSM LNA Gain	-2.5	-4.4	-2.3	0	dB
GSM LNA Noise Fig.	4.9	°	5	6	dB
GSM LNA IIP3	15.16	15	17	°	dBm
Mixer Performance					
High Gain, High Linearity Modes					
GSM Mixer Gain	12.1	10.3	13.3	16.4	dB
GSM Mixer Noise Fig	8.8	°	7.8	9	dB
GSM Mixer IIP3	5.58	3	5.5	°	dBm
DCS Mixer Gain	12.65	11.7	14.5	17	dB
DCS Mixer Noise Fig	7.2	°	7.8	9	dB
DCS Mixer IIP3	6.56	5.5	7.5	°	dBm
FM Mode					
Mixer gain	9.13	6	8.8	11.1	dB
Mixer noise Fig	9.96	°	8.7	11	dB
Mixer IIP3	3.45	1.4	3.4	°	dBm
DC ELECTRICAL CHARACTERISTICS					
		MIN	TYP	MAX	UNITS
High Gain, High Linearity Modes					
GSM Operating Supply Current	28.92	°	28	35	mA
DCS Operating Supply Current	24.64	°	25	33	mA
High Gain, low linearity Modes					
GSM Operating Supply Current	19.63	°	18	24	mA
DCS Operating Supply Current	17.44	°	18	24	mA
Low Gain Modes					
GSM Operating Supply Current	21.5	°	19.5	25	mA
FM Mode					
Cellular Operating Supply Current	14.44	°	13	17	mA