

Selected Electrical Specifications

($V_{DD_H}=3.3$ V, $V_{DD_L}=1.8$ V, $V_{DD_D}=1.8$ V, $T_A=25$ °C)

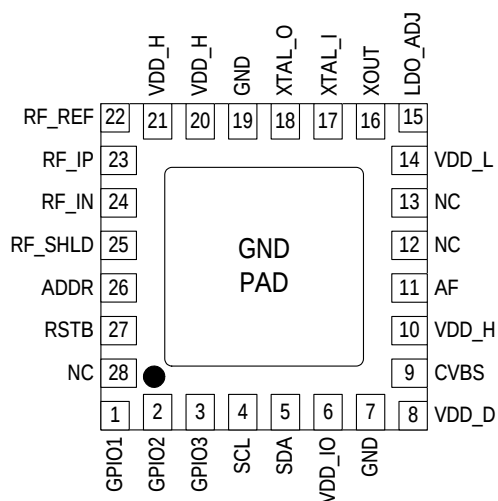
Parameter	Test Condition	Typ	Unit
Supply voltage		1.8 and 3.3, or only 3.3	V
Total Power Consumption		496	mW
RF Input Frequency Range		42 to 870	MHz
NF, terrestrial*	VHF-L	4.0	dB
	VHF-H	3.7	dB
	UHF	3.8	dB
Return Loss*	Terrestrial mode	3	dB
	Cable mode	9	dB
Wideband IIP3*	VHF-H, $N\pm 18$, ± 36	+5	dBm
Inband IIP3*	VHF-H, $N\pm 1$, ± 2	-6	dBm
LO Phase Noise at 860 MHz	1 kHz 10 kHz 100 kHz 1 MHz	-100 -100 -105 -132	dBc/Hz
LO Integrated Phase Noise at 860 MHz	DSB: 125 Hz to 4 MHz	0.25 (-47)	°rms (dBc)
Analog IF Spurious Distortion	S=P	-72	dB
ATV Receiver Sensitivity	30dB video SNR; M/N B/G, D/K I L/L'	-67.5 -67 -66 -68	dBm
ATV Receiver Unweighted Video SNR	+1 dBm input level; M/N B/G, D/K I L/L'	55.5 55 53.5 56.5	dB

*Note: Measured at the F-connector input of the Si2157 EVB and includes all connector, PCB, and front-end circuit losses.

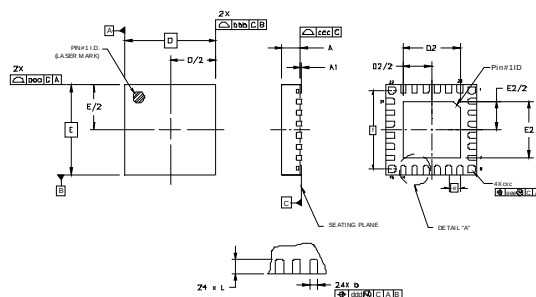
Selection Guide

Part #	Description
Si2137	Worldwide analog TV receiver for NTSC, PAL/SECAM

Pin Assignments



4x4 mm QFN-28 Package Information



Symbol	Min	Nom	Max	Unit
A	0.80	0.85	0.90	mm
D, E	4.00 BSC			mm
e	0.50 BSC			mm
f	3.50 BSC			mm