

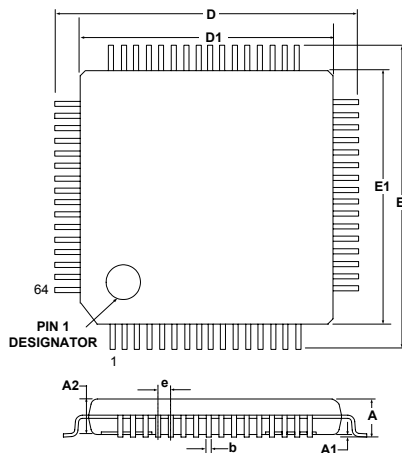


Selected Electrical Specifications

($T_A = -40$ to $+85$ °C, $V_{DD} = 2.7$ V unless otherwise specified)

Parameter	Conditions	Min	Typ	Max	Units
Global Characteristics					
Supply Voltage		2.7	—	3.6	V
Supply Current with CPU active	Clock = 25 MHz	—	10	—	mA
	Clock = 1 MHz	—	0.5	—	mA
	Clock = 32 kHz; V_{DD} Monitor Enabled	—	20	—	μA
Supply Current (shutdown)	Oscillator off; V_{DD} Monitor Disabled	—	0.1	—	μA
Clock Frequency Range		DC	—	25	MHz
A/D Converter					
Resolution		—	10	—	bits
Integral Nonlinearity		—	—	±1	LSB
Differential Nonlinearity	Guaranteed Monotonic	—	—	±1	LSB
Signal-to-Noise Plus Distortion		59	—	—	dB
Throughput Rate		—	—	100	ksps
Input Voltage Range		0	—	VREF	V
Comparators					
Supply Current	(each Comparator)	—	1.5	—	μA
Response Time	(CP+ – CP-) = 100 mV	—	4	—	μs

Package Information



	MIN (mm)	NOM (mm)	MAX (mm)
A	-	-	1.20
A1	0.05	-	0.15
A2	0.95	-	1.05
b	0.17	0.22	0.27
D	-	12.00	-
D1	-	10.00	-
e	-	0.50	-
E	-	12.00	-
E1	-	10.00	-

C8051F040DK Development Kit

