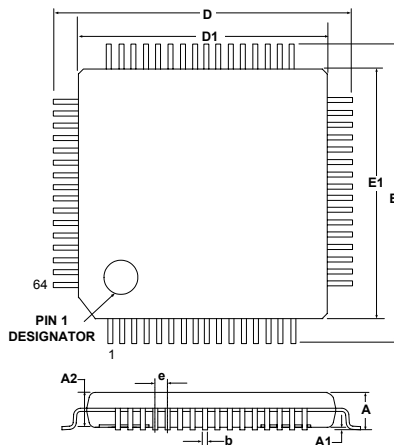


Selected Electrical Specifications

($T_A = -40$ 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 (CPU active)	Clock = 25 MHz		18		mA
	Clock = 1 MHz		0.7		mA
	Clock = 32 kHz; V_{DD} Monitor Enabled		20		μ A
Supply Current (shutdown)	Oscillator not running; V_{DD} Monitor Disabled		0.1		μ A
Clock Frequency Range		DC		25	MHz
16-BIT A/D CONVERTERS					
Resolution			16		bits
Integral Nonlinearity	Single-ended Mode		± 0.75	± 2	LSB
	Differential Mode		± 0.50	± 1	LSB
Differential Nonlinearity	Guaranteed Monotonic		± 0.5	± 1	LSB
Signal-to-Noise Plus Distortion	$F_{in} = 10$ kHz, Single-ended		86		dB
	$F_{in} = 10$ kHz, Differential		89		dB
Total Harmonic Distortion	$F_{in} = 10$ kHz, Single-ended		96		dB
	$F_{in} = 10$ kHz, Differential		103		dB
Spurious-Free Dynamic Range	$F_{in} = 10$ kHz, Single-ended		97		dB
	$F_{in} = 10$ kHz, Differential		104		dB
Throughput Rate				1	Msp/s
Input Voltage Range	Single-ended ($A_{INn} - A_{INnG}$)	0		V_{REF}	V
	Differential ($A_{IN0} - A_{IN1}$)	$-V_{REF}$		V_{REF}	V
Power Supply Current (each ADC)	Operating Mode, 1 Msp/s ($AV_{DD} + AV+$)		5.5		mA
	Shutdown Mode		1		μ A

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	-

C8051F060DK Development Kit

