

3VOLT POWER
CR2032H LITHIUM COIN CELL

3.0 VOLT

Switched
Vbatt

RESET

1.8 V Voltage Detector
Reset Low when Vbatt < 1.8V

AMBIENT LIGHT SENSOR

Q1
LIGHT SENSOR

5 KEY
KEYPAD

PIC16LF1829 LOW POWER MICROCONTROLLER
ACTIVE MODE - 250KHz CLOCK FROM INTERNAL RC OSC
NORMAL MODE - SLEEP ALL CLOCKS OFF
ACTIVE ON KEY CLOSURE - 250KHz CLOCK
CLOCK SHIFTS TO 8MHz WHEN TRANSMITTING

STATUS ANNUNCIATOR

&1
RED

LED KEYPAD ILLUMINATION

60Hz 8% DUTY CYCLE
2.5 mamp PEAK

X 10
ORANGE

I2C + 2 Control

SI4012 PLL Transmitter
10 MHz Crystal Oscillator

PLL Synthesizer
Antenna Matching
Packetizer

2.1Kb/s Manchester ENCODING
ON-OFF KEYING MODULATION
250 uSEC PULSE WIDTH
600mSEC (MAX) PACKET LENGTH

314.95 or 315.00 MHz RF

ANTENNA

Co:	ENTERPRISE ELECTRONICS		
Title:	WIRELESS KEYPAD BLOCK		
Board:	LRL072BLK.SCH	Revision:	A
Author:	D. Pearson	Size:	A
Date:	6/4/2018	Sheet	1 of 1