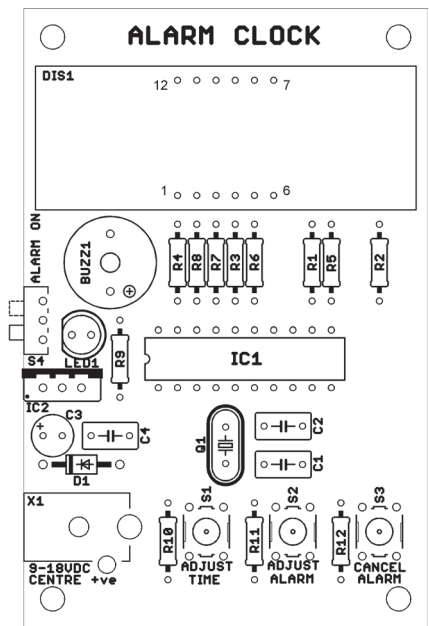


Alarm Clock

MAP 410 (page 1 of 2) - N21FL



- Works like a normal digital alarm clock
- Built in buzzer
- Requires a 9V-18V power supply

Part	Value	Device
PCB		JB07-4-2-1
BUZZ1		Buzzer
C1	22p	Ceramic capacitor (5mm pitch)
C2	22p	Ceramic capacitor (5mm pitch)
C3	100u	Electrolytic capacitor, radial
C4	100n	Ceramic capacitor (5mm pitch)
D1		1N4006
DIS1		Clock display
IC1		20 pin DIL socket
IC1		ATTINY2313
IC2		7805
LED1		Standard red 5mm LED
Q1		3.6864MHz Crystal
R1 to		
R8	100R	Resistor, 0.25W, Carbon film
R9	330R	Resistor, 0.25W, Carbon film
R10	10k	Resistor, 0.25W, Carbon film
R11	10k	Resistor, 0.25W, Carbon film
R12	10k	Resistor, 0.25W, Carbon film
S1 to		
S3		6mm x 6mm Tactile switch
S4		Ultra-miniature slider switch
X1		DC power socket

Operation

Connect a 9V to 18V power supply to the DC jack (centre positive, 2.1mm).

Press ADJUST TIME to change the current time (hold down for fast change).

Press ADJUST ALARM to change the current alarm time (hold down for fast change). Pressing ADJUST ALARM once will display the current alarm time without altering it.

Press CANCEL ALARM to silence an alarm.

Use the switch S4, to enable or disable the alarm function.

Alarm Clock

MAP 410 (page 2 of 2)

Instruction hints

BUZZ1 - Note polarity (look for + symbol)

C3 - Note polarity (marked by minus signs).

D1 - Note polarity (marked by stripe).

DIS1 - Orientate with decimal points at the bottom.

IC1 - Note the location of the notch.

IC2 - Note orientation.

LED1 - Note polarity

Component markings

C1, C2 22

C4 104

R1 to R8 brown, black, brown

R9 orange, orange, brown

R10 to R12 brown, black, orange

