

### Step 3: Solder the capacitors

C1 100u 

C2 0.1u 



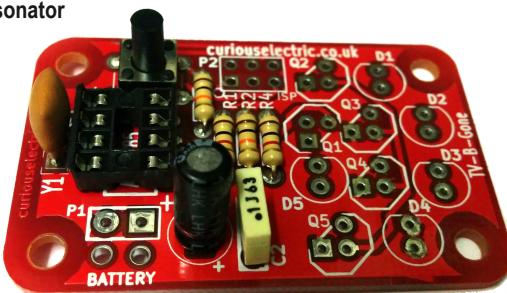
#### Note:

Polarity on C1: White stripe is GND. Long lead is +ve  
C2 is marked ".1J63"

### Step 4: Solder the push switch



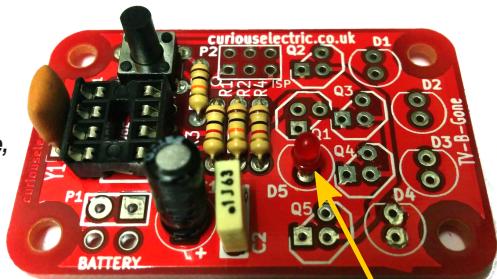
### Step 5: Solder the 8MHz resonator



Note: The resonator can be inserted in either direction.

### Step 6: Solder the red LED

Note polarity:  
flat side negative,  
long leg +ve



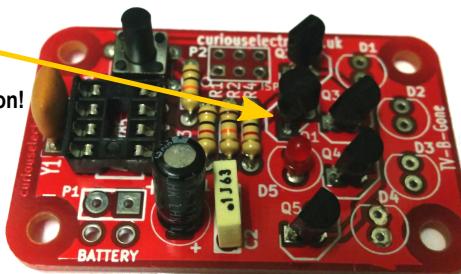
3mm Red LED

### Step 7: Solder the transistors

Transistor Q1

Type: BC640

Check orientation!



Transistors Q2-5

Type: BC548

Check orientation!

Transistor orientation:

Flat side of transistor here



Round side of transistor here

### Step 8: Solder the infra-red LEDs



Use pliers to bend LED leads 90 deg



Note polarity: flat side negative, long leg +ve