midi split

Thankyou for buying this kit! The information on this slip is the bare minimum you will need to build the project. You will find expanded information, including step by step build instructions with photographs, at https://github.com/hotchk155/MIDI-Splitter/wiki

The component designators used on the PCB are listed below

R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R21 - 220 Ohm (red-red-brown code) resistor. R1 through R12 are fitted "standing up" on the board and I recommend soldering them after the other components.

R13,R16,R17 – 1 kOhm (brown-black-red code) resistor

R14,R15 – 1.5 kOhm (black-green-red code) resistor

C1 - 100nF ceramic (104 code) capacitor

The following components must be soldered the correct way around. Use the markings on the PCB for orientation or check the above link if in doubt

Q1 - 2N3906 general purpose PNP transistor

C3 – 4.7uF electrolytic capacitor

D1 - 1N4148 small signal diode

IC1 - 4050 hex non-inverting buffer (DIL16) with socket

IC2 - 6N138 Opto Coupler (DIL8) with socket

Solder the IC sockets before fitting ICs. Check orientation of pin 1 notch/dimple with markings on PCB)

The following LEDs are fitted close to the mini USB socket

POWER (left of socket) - Standard brightness RED or GREEN LED

ACTIVITY (right of socket) - High brightness BLUE LED

Solder the seven MIDI sockets last and make sure that they are fitted flush to the board. This is important to ensure the solder joints to the sockets do not get strained and damaged in use.

Use the self-adhesive rubber feet to prevent scratching of surfaces by the sharp solder joints on the bottom of the board.

I hope you find this kit useful. If you have any problems please contact me at the following email sixtyfourpixels@gmail.com or via the site where you ordered the kit

midi split is an open hardware project. All input and feedback is welcome

Cheers

Jason Hotchk155

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