imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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COM-08653



DISCLAIMER:

This document is the result of an obscene amount of work and research because I really wanted to make a nice wood case / bezel using Ponoko for a project I'm working on. Literally everything in this document might be wrong and if you waste money or injure somebody based on this document, it's your own look out. If you can and want to correct any of the information here, contact andrew@amorrow.com.

Mechanical



10mm (1cm)

 \bigcirc

0 0 0 0 0 0 0 0 0 1 2 3 4 5 6 7

Electrical

PushButtons: Columns + Rows

This is the same information in several different ways. I've gotten requests to visualize it differently, so why fight it?



 \bigcirc

0 0 0 0 0 0 0 0 0 1 2 3 4 5 6 7

 \bigcirc

Arduino information

Thanks to Jim Winburn for additional Arduino related info, and for changing the groupings on the pin layouts. MUCH more clear now!

Keypad Pin 3Arduino digital 2Keypad Pin 1Arduino digital 3Keypad Pin 5Arduino digital 4Keypad Pin 5Arduino digital 5Keypad Pin 7Arduino digital 6Keypad Pin 6Arduino digital 7Keypad Pin 4Arduino digital 8

Notice the rowPins and colPins below in the sample code example:

// example from Arduino playground: http://www.arduino.cc/playground/Code/Keypad

```
#include <Keypad.h>
const byte ROWS = 4; //four rows
const byte COLS = 3; //three columns
char keys[ROWS][COLS] = {
    {'1','2','3'},
    {'4','5','6'},
    {'7','8','9'},
    {'*','0','#'}
};
byte rowPins[ROWS] = {5, 6, 7, 8}; //connect to the row pinouts of the keypad
byte colPins[COLS] = {2, 3, 4}; //connect to the column pinouts of the keypad
```

Sources

2-24-2011

http://www.sparkfun.com/products/8653

http://www.tenrod.com.au/pdf/accord/keypads.pdf

http://www.accordia.com.tw/html/tel/index.htm (AK-304-BBW)

http://www.accordia.com.tw/html/tel/imagepages/imagepg11.htm

http://www.idpcorp.net/product_expertise/silicone_keypads/stock_keypads/technical_information.html

Changes

5-5-2011

- changed part # to Sparkfun COM-08653
- added link to tutorial

6-27-2011

- changed grouping on column/row pins for clarity Thanks Jim
- Added source for Arduino with new grouping
- Added new visualization for pin mapping
- Split document into multiple pages

2-24-2011