**Blackberry Trackball breakout board four spindles 2.5V~5.25V**

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Blackberry Trackball breakout board

Description: This is a breakout board for our Blackberry Trackball.

The four spindles on the trackball have a tiny circular magnet the end; each of these are paired with an SMD hall effect sensor,

which are used to measure up, down, left and right movements of the trackball.

An SMD momentary switch is placed under the trackball to give you a select switch.

The BTN line will be pulled low when the switch is pressed.

Also included on the Trackballer are 4 LEDs: red, blue, green and white.

These can be powered to light the clear trackball up any color you can imagine.

All features are broken out to a 0.1" pitch header. Regulated, 2.5-5.25VDC power

must be provided to power the Hall sensors.

The trackball is attached with strong CA glue. Board comes as shown, with all components populated.

The hall-effect sensors and trackball combo are surprisingly sensitive.

A slight roll of the trackball creates multiple high/low transitions on the four axis pins,

easily picked up by any microcontroller essentially giving you the option of adding a mouse to your project.

A 360° rotation of the trackball, along a single axis, will result in about 9 high/low transitions.

Parameter

Working voltage:2.5~5.25V

PCB Size: 22\*28mm

Mechanical drawing

