

Bee Counter v0.2

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Notes:

Measured FU of 1.25V and 36ma.

2 leds in series then at 36ma need a 22ohm resistor

Dimension Notes:

Bee Opening is 14.75"

- minus 1/16" = 14.6875 (for small tolerance)

Bill of Materials

- 220hm resistors, bussed, qty(3)
- SIP Packages, bussed
- <https://www.mouser.com/ProductDetail/Xicon/266-22-RC?qs=s9AEpihZ2Mvrc6UYkaNdfE14dxjTcupT1l0pocX3D>
- 100k ohm resistors, bussed, qty(6)
- SIP-9, 8 resistors, 9 pins
- <https://www.mouser.com/ProductDetail/IPC-TT-Electronics/L0915104F1?qs=s9AEpihZ2Mvrc6UYkaNdfE14dxjTcupT1l0pocX3D>
- Shift registers, qty(6)
- 74HC165
- <https://www.mouser.com/ProductDetail/Texas-Instruments/CD74HC165EE4?qs=s9AEpihZ2Mvrc6UYkaNdfE14dxjTcupT1l0pocX3D>
- 3.2V Regulator, (input, ground, output - 180, pinout)
- <https://www.mouser.com/ProductDetail/Microchip-Technology/1MCP1826S-3302E-AB?qs=s9AEpihZ2Mvrc6UYkaNdfE14dxjTcupT1l0pocX3D>
- 0.1 uF Ceramic Capacitor, through hole
- <https://www.mouser.com/ProductDetail/594-K184K15X7AF53H5>
- 1 uF Ceramic Capacitor, through hole
- <https://www.mouser.com/ProductDetail/594-K18B220Y5U5T12>
- 560uF, 6.3V Capacitor
- low esp, 3.5mm lead spacing, 8mm diameter
- <https://www.mouser.com/ProductDetail/661-#PSC63L561H00S>

