

# 2x2 Current-Limited Surface Mount LED Module v1.1

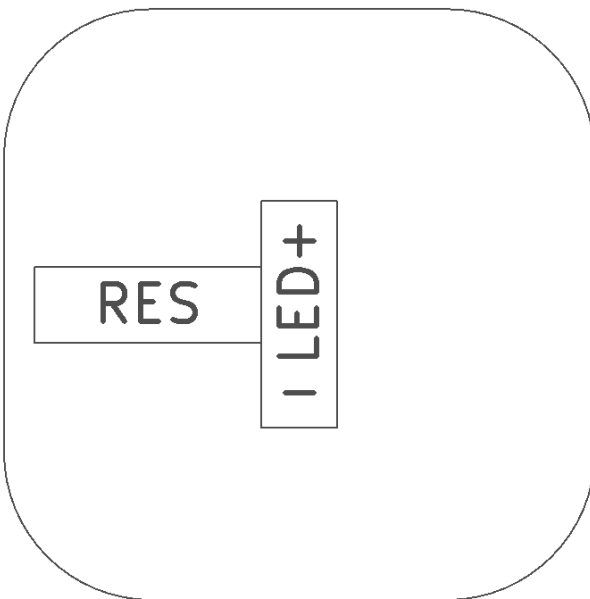
## A Lego-compatible Crazy Circuits module.

Attaching an LED directly to a microcontroller's output pins can damage the pins, so this module has the LED in series with a current-limiting resistor. At 100 ohms, it can be used with both 3V and 5V power sources and still emit a red light.

### Bill of Materials

| Ref  | Qty | Description               | Digikey PN     |
|------|-----|---------------------------|----------------|
| LED1 | 1   | LED RED 2V 625NM 1206 SMT | 732-4991-1-ND  |
| R1   | 1   | RES 100 OHM 5% 1/4W 1206  | 311-100ERCT-ND |

### Assembly Diagram



### Board Previews

