

# 2x2 Current-Limited Red SMT LED Module v1.0

## 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.

The red LED has a forward voltage drop of 2V, so we recommend a resistor of 100 ohms so the module 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 CLEAR SMT 1206	732-4991-1-ND
R1	1	RES 100 OHM 5% 1/4W 1206	311-100FRCT-ND

### Manufacturing Notes

This board must be v-scored. Do not panelize with support tabs or mousebites.



