flame m0dul kit

Acrylic glass m0dul for the *r0ket*

kiu/muccc

Rev **B**

10 EUR

Remarks

- The kit contains more capacitors/resistors than needed (spare parts)
- The packaging of the capacitor/resistors are color coded
- Do NOT solder the LED before attaching the acrylic glass

Assembly

1. BOTTOM: Solder resistor R1/100k (RED).
2. BOTTOM: Solder resistor R2/60|65 (GREEN).
3. TOP: Solder IC U1/PCA9553. Be aware of the orientation! The slightly beveled side must be left (yellow line). The imprint “NXP” must not be upside down.
4. TOP: Solder capacitor C1/100nF (BLUE).
5. BOTTOM: Attach acrylic glass. Etched side facing away from the m0dul. Fixate with screws. Heads on TOP - nuts on BOTTOM.
6. BOTTOM: Solder U2/LED. Align LED with edge of acrylic glass.
7. BOTTOM: Solder stack through connectors. Insert from TOP. Female sockets are on TOP - male pins on BOTTOM. Optional: Shorten pins by 5mm.

Run

1. Turn *r0ket* off
2. Plug *flame* m0dul onto *r0ket*
3. Turn *r0ket* on
4. Shout out loud: "Booster ignition and liftoff!"

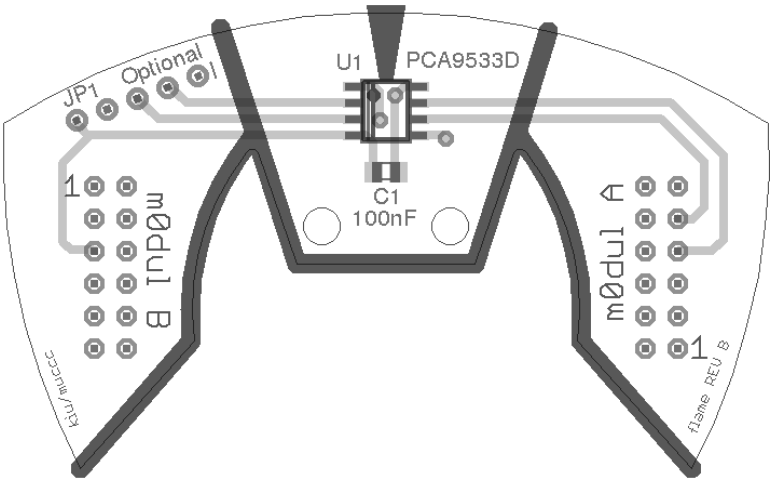
Help

Dig through the *r0ket* wiki, join the IRC channel or find someone from *team r0ket* at *Fpletzvillage.*

Links

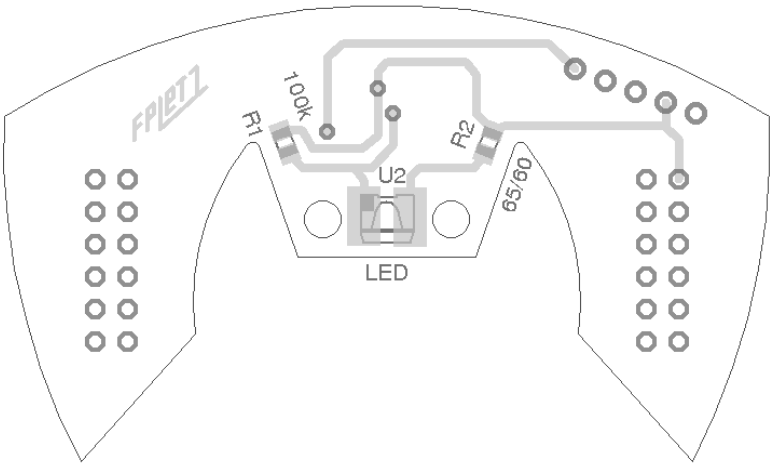
- https://github.com/kiu/flame
- https://r0ket.badge.events.ccc.de
- https://events.ccc.de/camp/2011/wiki/Fpletzvillage

TOP



C1 100nF (BLUE)
U1 PCA9533

BOTTOM



R1 100k (RED)
R2 60|65 (GREEN)
U2 LED