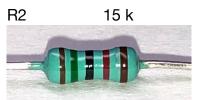
DIY Particle Detector v1.2 - overview of electronic components 4-diode variant for detecting mostly electrons/beta radiation

Resistor values in Ohm:

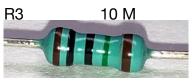
R1 4k7 (4.7 k)



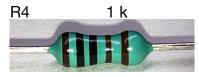
yellow purple black brown (brown)



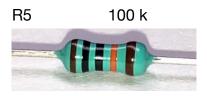
brown green black red (brown)



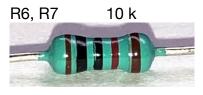
brown black black green (brown)



brown black black brown (brown)

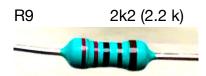


brown black black orange (brown)



brown black black red (brown)

R8 must be shorted with a wire (0 Ohm)



red red black brown (brown)

Check the schematic for general notes. www.github.com/ozel/DIY particle detector

Capacitor values in Farad: C1, C2, C6 10 p



marking: 100

C3, C4, C5, C7, C10 100 n



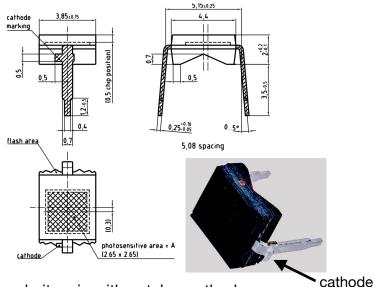
marking: 104

C8 47 u 47μF63V 4√1

polarity: short pin = minus, long pin = plus

C9 is not needed in this variant (leave empty and do not populate)

D1 - D4 Silicon PIN Diode BPW34 F



polarity: pin with notch = cathode

U1 Dual operational amplifier TLE2072 CP



pin 1 (also marked with circle)