

Equation: $C [\text{capacitor}] = A [\text{area}] \times z [\text{dielectric}] / d$
 [distance between plates]
 JCL dielectric for ordinary PCB product: $z = 4.5$ Farad/meter
 Distance between layers in JCL ordinary PBC product: $d = 0.127$ millimeters
 Optimized area for capacitor [length² = A]: length = 3 centimeters
 Final capacitor value: $(0.003)^2 \times 4.5 / 0.127 \times (10)^{-3} \approx 32$ centifarad

Apply system analysis of main robotic body through ADC moderation, communication moderation, water sensor data, and temperature sensor data intake

Temperature sensor to be utilized
 From ADC channel 5 (AINSEL = 4)
 From software portion of system

Resistors:
 450mR (1)
 27k (2)
 120R (1)
 330R (3)
 1kR (2)
 2.4kR (1)
 10kR (1)
 56kR (2)

Capacitors:
 15pF (2)
 100nF (10)
 1uF (5)
 10uF (1)

Have two CAN inputs and outputs to be able to communicate with two devices (one channel and the other for emergencies) then have input for status of system and idk something

