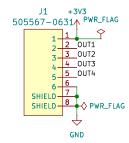
ADCS Connector



Photovoltaic Mode: Vout = Rf * Id

Op-Amp Supply Current: 0.75mA * 4 = 3.5mA at 3V

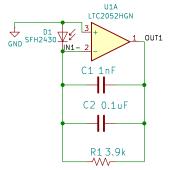
EIVE -> photoconductive (common cathode on their 4 cell photodiode)
SOURCE -> photovoltaic? assumption because of lower current consumed.

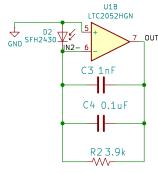
max_curr_typical = Id_per_lux_typical * solar_lux 3.3V / max_curr_typical = 3927.8329959681864

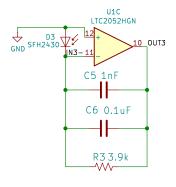
R = 3.9k

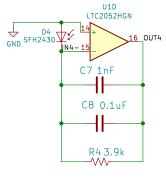
Could maybe go a bit lower on this...

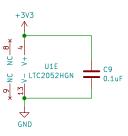
Photodiodes & Op-amp











Mounting Holes



MountingHole

Not grounded to avoid current flow from X panel (see there for design) and associated electrical noise



MountingHole

Re: Hunter Liu

Stanford Student Space Initiative

Sheet: /

File: Piramide_Del_Sol.kicad_sch

Title: Piramide del Sol

Size: A4 Date: 2025-04-07 Rev: 3.2 KiCad E.D.A. 9.0.1 ld: 1/1