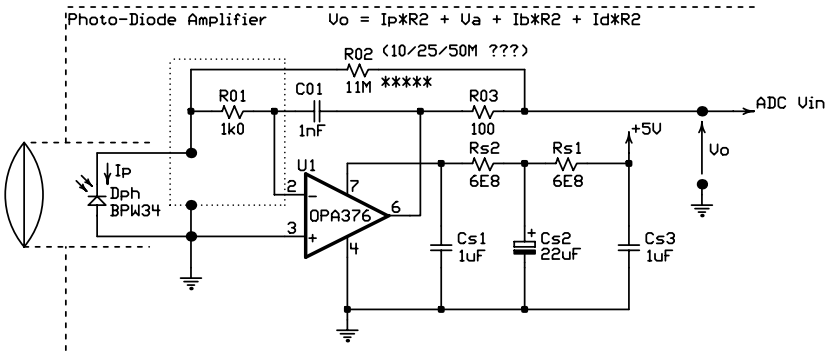


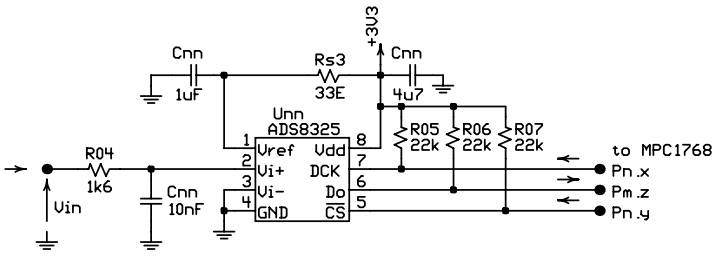
Photo-Diode Type:
BPW34
Cd = 72pF (Vr=0)
A = 7 mm^2
S = 0.62 A/W (80nA/lx)
Ip = 50uA @ 1mW/cm^2 @ 850nm
Id < 10pA (Vr=10mV)
lambda_pk = 850 nm
lambda_rg = 400-1100 nm

OPA376
Vofs = 5uV typ. (25uV max)
Ib = 0.2pA typ. (10pA max, T>40degC)
Vn(LF) = 1uVpp

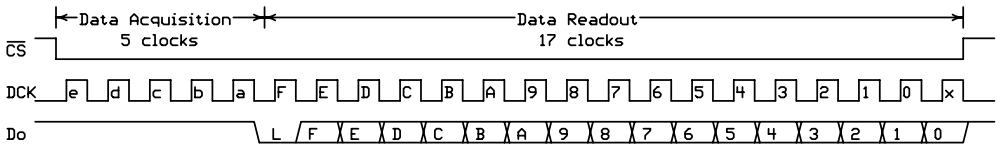
R02	1LSB 50uV/R2	Full Range 3V3/R2
50M	1pA	66nA
25M	2pA	132nA
10M	5pA	330nA

Radiation reference: 1pW/cm^2/sr
Solid angle: 120°/1sr --> ~x4
Photodiode sensitivity: 0.62 A/W
Coating attenuation: 0.27
Area ratio: 7/100
Lens area ratio: pix(50.8/2)^2/7

Reference equivalent to:
10^(-12) x 4 x 0.62 x 0.27 x (7/100) x pix(50.8/2)^2/7 = 1.36x10^(-11) [A] = 13.6pA



1LSB = 3.3V / 65535 = 50uV



Institut Jožef Stefan			
projekt/naloga :	Astro Lab Optics		
sestavni del :	PhotoDiode Amp2	načrtoval	E. Margan
		risal	E. Margan
pripombe :	tolerance uporov 1 %	datum	2013.12.19.
	tolerance kondenzatorjev 10 %	list	1/1
		koda	NGpt-PDA1-01