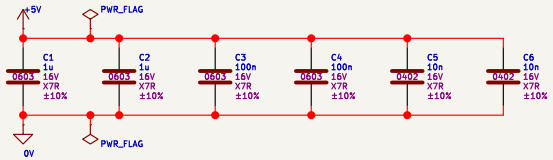
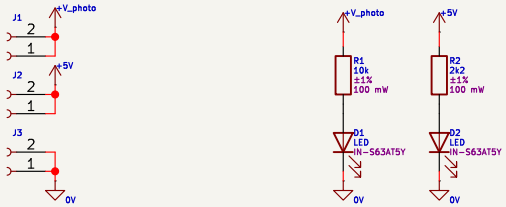
Wypuszczony 100%

OOS – optyczny odbiornik sygnalow

Decoupling capacitor
Input connector
Diode indication

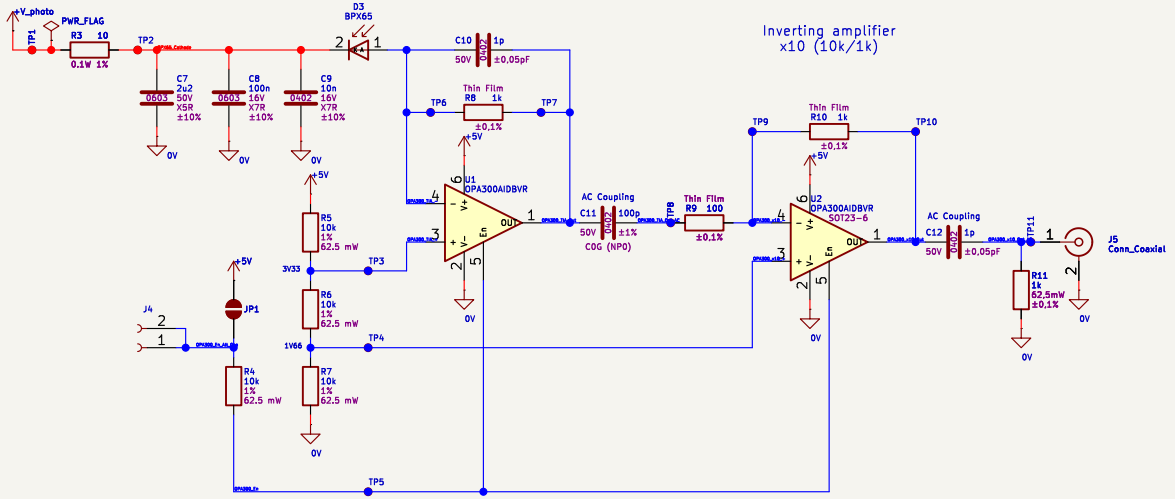


+V_photo 5V to 20V



Optical receiver

Square signal
fnom 2[MHz]
fmax 15[MHz]
Imin 1[uA]
Imax 100[uA]



Project note:
- BPX65
- OPA300AIDBVR

FEATURES
High Bandwidth: 150MHz
16-Bit Settling in 150ns
Low Noise: 3nV/√Hz
Low Distortion: 0.003%
Low Power: 9.5mA (typ) on 5.5V
Shutdown to 5µA
Unity-Gain Stable
Excellent Output Swing: (V+) – 100mV to (V–) + 100mV
Single Supply: +2.7V to +5.5V
Tiny Packages: MSOP and SOT23

Layout note:
–

Design note:
- Add capacitor C110 (100n)
- Add capacitor C109 after revire (10n)
- Change capacitor C101 from 3p to 1p
- Change capacitor C103 from 1n to 100p
- Change resistor from 1k to 100
- Change resistor from 10k to 1k
- Change capacitor from 1n to 1p

Mounting holes
Fiducials

H1 MountingHole
H2 MountingHole
H3 MountingHole
H4 MountingHole
FID1 Fiducial
FID2 Fiducial
FID3 Fiducial

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Quasi Peak

Sheet: /
File: OOS – optyczny odbiornik sygnalow.kicad_sch

Title: OOS – optyczny odbiornik sygnalow

Size: A4	Date: 26-04-2025	**Rev: 0.0.3**
KiCad E.D.A. 9.0.1		Id: 1/1