Optics & Photonics

Indzawo Optic Connect

# Simulation of OPA847 Transimpedance Amplifier





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# Simulation of OPA847 Transimpedance Amplifier



OPA847 - Free download as PDF File (.pdf), Text File (.txt) or read online for free.



TIASim - Transimpedance Amplifier Simulation. Contribute to aewallin/TIASim development by creating an account on GitHub.



This image compares TIASim predicted bandwidth vs. photodiode capacitance and transimpedance to the datasheet front-page Figure. Note that the TIASim CF values are increased by a sqrt (2) factor.



We have a PCB circuit with the OPA847 amplifier in transimpedance configuration. We wish to work in a low gain regime with a resistance in the feedback loop of 220 Ohm.




I am trying to simulate a transimpedance aplifier using the Texas Instrument OPA847. I added the Library to Eagle and make the schematic, but once when I try to simulate it says that I ...

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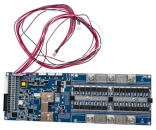
PSpice® for TI is a design and simulation environment that helps evaluate functionality of analog circuits. This full-featured, design and simulation suite uses an analog analysis engine from Cadence®.



We present a thorough theoretical analysis and experimental study of the shot and electronic noise spectra of a balanced optical detector based on an operational amplifier (OA) connected in a...



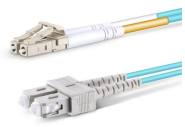
So I''m playing around with your simulation and adjusting the parameters as I did before. I wonder if it''s possible to simulate the noise and stability of my setup with LTSpice?



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Testing was done to characterize the Texas Instruments Operational Amplifiers OPA847 single event effects (SEE) response. The primary SEE concerns for this device are single event ...



The combination of very low input voltage and current noise, along with a 3.9GHz gain bandwidth product, make the OPA847 an ideal amplifier for wideband transimpedance applications.

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## Contact Us

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