

OPA657 oscillates with no input, but works with the input

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I am using OPA657 as transimpedance amplifier. I have the photodetector as the input.

When there is no input from the laser (even if the photodetectors are closed with no light coming in) the output of the opamp oscillates between -5 and $+5$ V. Does anyone know why that is or what could the problem be? The circuit is working and producing reasonable output when the laser gives the signal. The exact same circuit with OPA655 does not have this problem. I am using all SMD components.

Thanks,
Vitaliy