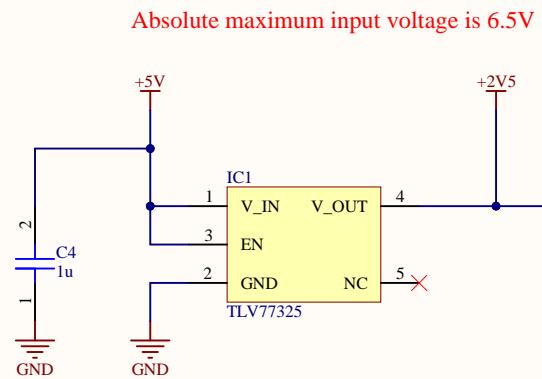
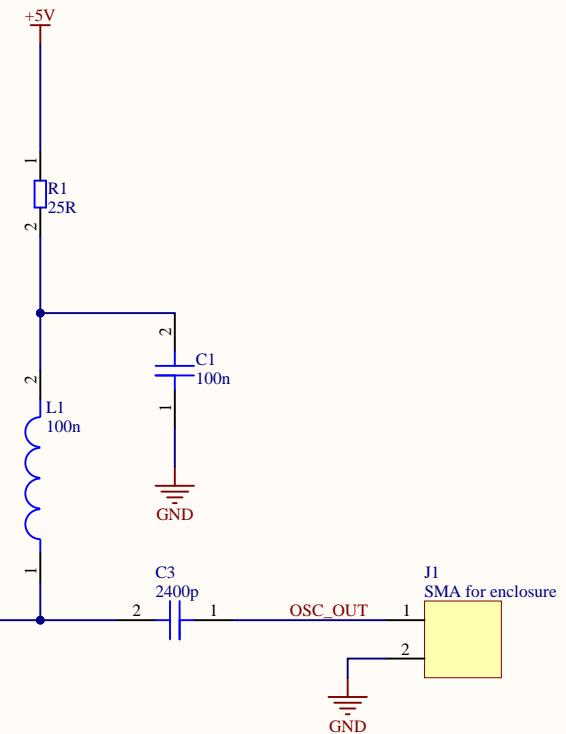


A

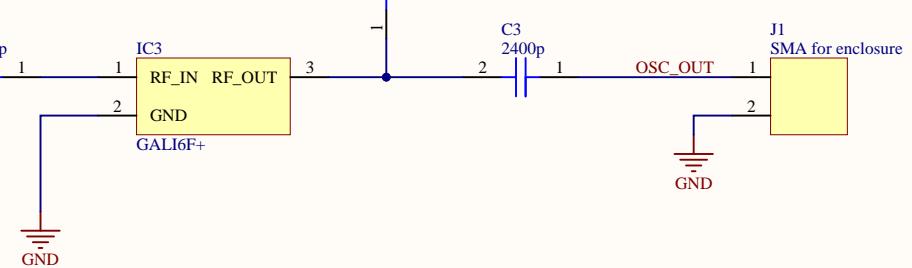
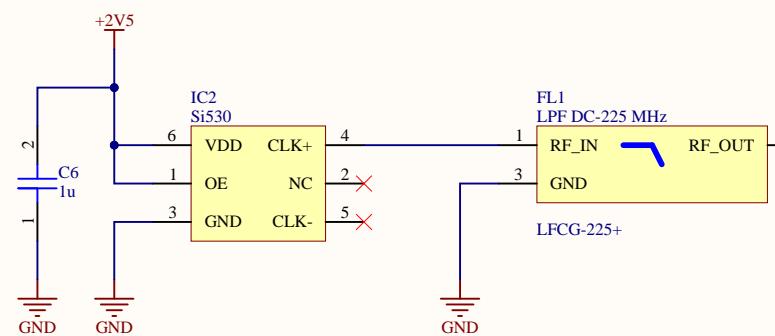


An input capacitor is not required for LDO stability. However, an input capacitor with an effective value of  $0.47\mu F$  minimum is recommended to counteract the effect of source resistance and inductance, which in some cases causes symptoms of system-level instability such as ringing or oscillation, especially in the presence of load transients. Depending on the characteristics of the input voltage source, use a larger input capacitance if needed.

Effective output capacitance of  $0.47\mu F$  minimum and  $40\mu F$  maximum is required for stability. The effective output capacitance accounts for tolerance, temperature, voltage, and any other factors that affect the value, and is often 50% smaller than the capacitors specified value.



B



C

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