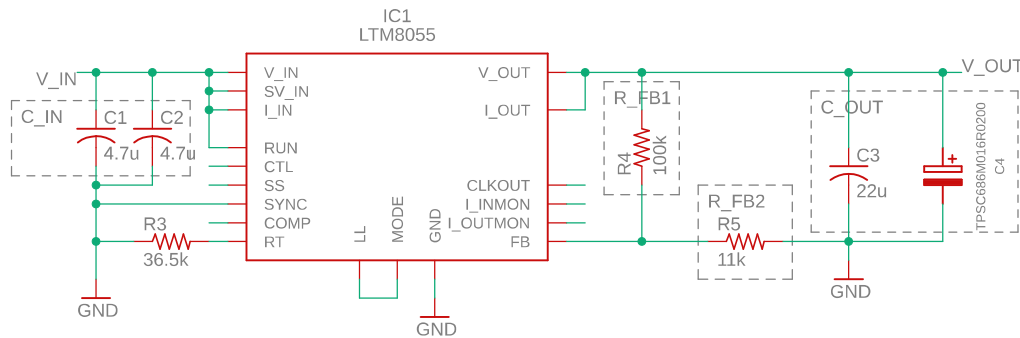


Buck/Boost Regulator



Recommended Component Values and Configuration
For VIN RANGE : 5V to 36V, VOUT : 12V

C_IN -> C1, C2 : 4.7µF, 50V, X5R, 1210

C_OUT -> C3 : 22µF, 25V, X5R, 0805

C_OUT -> C4 : 68µF, 16V, 200mΩ, Electrolytic

(Testing : 68µF, 16V, 200mΩ, Tantalum C Case TPSC686M016R0200)

Switching Frequency Determining Resistor

R_T -> R3 : 36.5kΩ (Optimal Frequency : 600kHz)

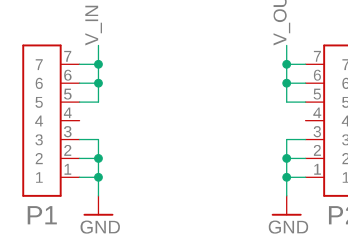
Output Voltage Determining Resistance(R_FB1/R_FB2)

R_FB1 -> R4 : 100kΩ

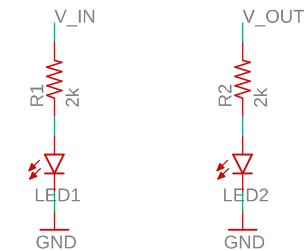
R_FB2 -> R5 : 11kΩ

Source : <https://www.analog.com/media/en/technical-documentation/data-sheets/LTM8055-8055-1.pdf>

Pinheaders



LED Indicators



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Title: Buck-Boost Switch Mode Power Supply Module

Design by: Masato Kubotera

Rev.: 1

Date: April 22, 2023

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