



- Notes on LM2596 from ONSEI:
- LM2596 Datasheet Link: <https://www.onsemi.com/download/data-sheet/pdf/lm2596-d.pdf>
  - V\_IN max. 45 V
  - Feedback pin allows for the programming of the voltage
  - ON/OFF allows to turn off the device. Above 1.6V, the device turns off.
  - $R2 = R1(V_{OUT}/V_{REF}-1.0)$ ;  $R1=1k$ ,  $V_{OUT}=12V$ ,  $V_{REF}=1.23V$
  - C\_IN is 100uF, 50V, low ESR from datasheet
  - Inductor values determination and recommended model are in the datasheet,  $L_{OUT}=1-2A$ , 150uH, 2.10A-2.70A
  - Recommended C\_OUT value is 3300uF/25V/85uOhm-470uF/25V/65u0hm
  - C\_FF (Feedback capacitor) value is 1.5nF

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