

R20 SENS_SUPPLYD-56 @ 75V V_IN +12V +12V +12V US1M US1M US1M D6 2k D1 D3 GND PWR_FLAG 🚫 U3 U5 U6 HO 7 (1HO2 7_{0H01} HO 7 (1HO3 C16 C22 H3D 2 HIN 2.2u L3D 3 LIN 2.2u L1D 3 LIN H2D 2 HIN 2.2u L2D 3 LIN LO 5 CILO2 EG3112 EG3112 EG3112 GND GND GND TX4130L 典型应用电路图: Vout: 5V/2A TX4130L: VFB: min=369 typ=380 max=391 mV VCS: min=145 typ=150 max=155 mV ON/OFF Voltage Filters SENS_3D-◆ 56 **②** 5√ □ HS3 R10 R12 R1 = R3 R2 = R4 Vout= VFB * (R2+R1)/R1 lout=VC5/R7 (R7=0.06R -> lo=2.6A) Frequency: Fixed 140kHz Inductance: 33UH-1000H _____2k___ 2k GND GND CYA0650-68UH2 55210 R18 +12V V_IN 68uH GND 0.1R C27 C28 + C29 TX4130L/PW2902 0 10u 9 VIN 35 VSEN 7
1 VIN > VSS 5
2 VDD LDO 4 22 u R13 8 R19 2k 3 FB1 2.2u FB2 4 1k8 P17 GND D4 1N4148WS ¥816 +12V 1N5819 D2 BOARD REGULATOR +5٧ https://datasheet.lcsc.com/lcsc/1912231403_XD5-TX4130L_C448635.pdf https://www.pwchip.com/en/product/PW2902-174.html AMS1117-3.3 **∧**VCC U4 PWR_FLAG XL1509-5.0E1 +57 GND 8 GND Vin 1 7 GND Vout 2 6 GND FB 3 5 GND 0/0 C6 C10 C12 C13 CYA0650-68UH1 C8 100n C19 C20 100u@6.3V Jens Overby 100u 100u@6.3V Sheet: /driver/ +12√ File: driver.kicad_sch GND Title: FOC KING Size: A4 Date: Rev: GND KiCad E.D.A. kicad 6.0.2+dfsg-1 ld: 6/4

r to stance, or (5



