R1=2.2-4.7K 2W C4=0.1uF(104)

R2=82R C5=0.22uF(224)

R3=220R C6=100P (101)

R4=4.7K C7=10uF/50V

R5.R6.R13.

R20.R21=10K

C8=330P (331)

R7=0.47R 5W C9=100P (101)

R8，R11=27K D1,D2,D3,D4=FR607

R9，R19=2.2K D5,D6=1N4148

R10=270K D8=5.1VZD, D7=4.7VZD

R12，R18=56K D9,D10=1N4148

R14=1.5K D11=1N4004

R15,R16=1K Q1=9014

R17=20R Q2=TIP122

R22=3.9K Q3=9015

RV1=100K 3296W Q4=2N3055 (2SD1047)

P1,P2=10KB U1,U2,U3=TL071(081)

C1=2x2200uF/50V D12=LED RED

C2,C3=47uF/50V