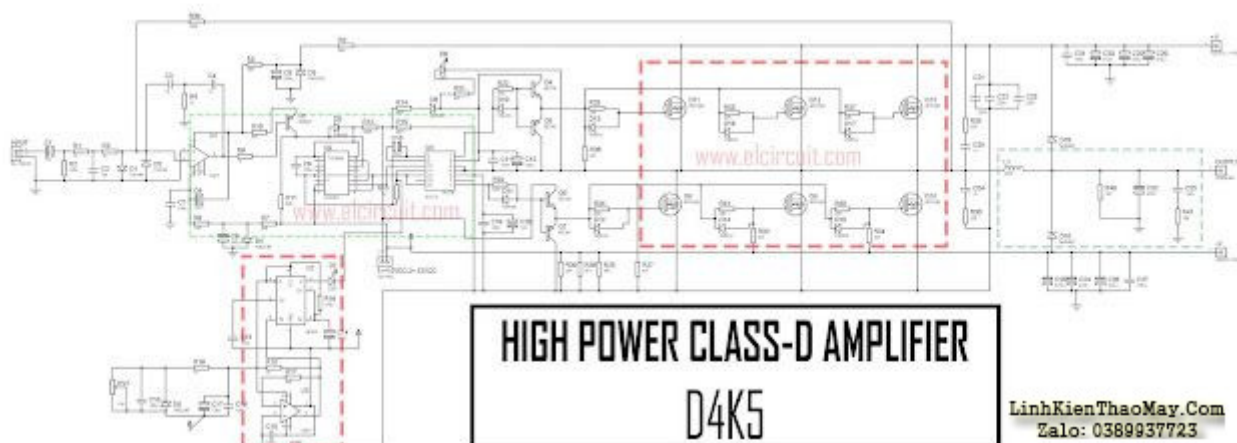




This High Power Amplifier circuit is a class D power amplifier, which has high enough power to generate 300W of power at 8 Ohm - and also more power up to 500W at 4 Ohm. This Power Amplifier can generate great power if given enough power supply. For example, you can use a 30A transformer with 100V symmetric voltage.

This more high power than this D4k5 see here: [Class D Fullbridge D2K5](#)

Here is the circuit scheme of High Power Class-D Amplifier D4K5:



View larger schematic image here: [Power Amplifier Class-D D4K5](#)

Component List

Resistor

R1, R3, R4, R9, R13, R18, R19, R20= 1K

R2, R16, R39= 100K

R5, R6= 10R

R7, R8=6K8/2W

R10, R21, R26, R27=4K7

R11, R17=6K8

R12=100R

R14, R15=4R7

R22, R23, R24, R25, R31, R33=47R

R28, R29, R30=0,1R/2W

R36, R38=22R/2W

R40=1K5/5W

R41=10R/2W

RV1=10K Trimpot

Capacitor

C1=10uF/16V

C2=10N

C3, C4=1N

C5=470uF/16V

C6=220uF/16V

C7, C9, C11, C12, C13, C15, C16, C18, C19=100N MKP

C8=470uF/16V

C10, C14, C17=100uF/16V

C20=10uF/50V

C21, C22, C23=220N/475V

C24, C25, C26=470uF/180V

C27, C31, C33=100N/275V

C28, C29, C30=470uF/180V

C32=470N/250V

Diode

D1, D2, D5, D10, D11= 1N4148

D3, D4= ZD5V6

D6, D18, D19= MUR460

D7= LED (RED) OCP

D8= ZD5V6

D9= LED (BLUE)

D12, D13, D14, D15, D16, D17= 1N5819

Transistor

Q1= 2N5401

Q4, Q6= BD139

Q5, Q7= BD140

Q8, Q9, Q10, Q11, Q12, Q13= IRFP260

IC

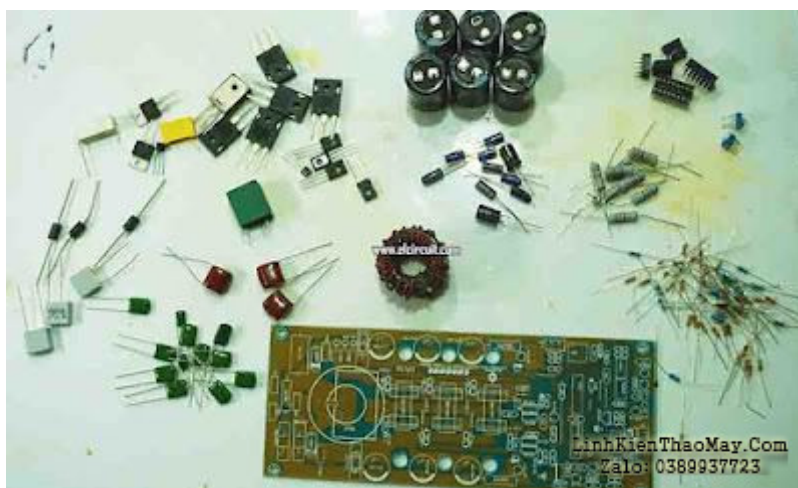
U1= TL071

Q2= CD4049

Q3= IR2110

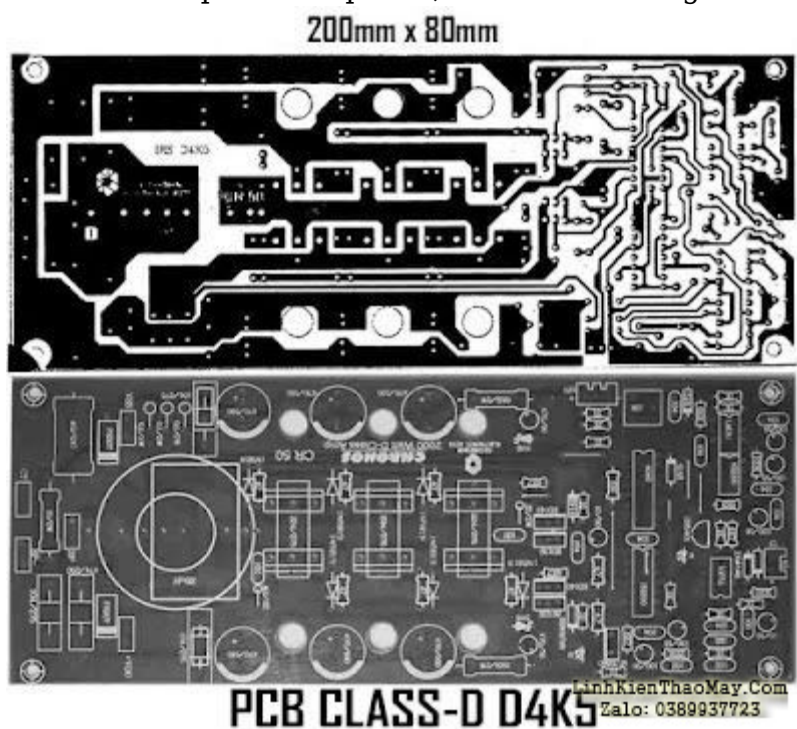
U2= NE555

U3= LM311





The Power Amplifier is using view components and this power amplifier includes OCP, DCP. And using 6x N-Channel Power Mosfet. You can use IRFP260, IRFP4227, IRFP4242, and others. If you want to make this power amplifier, see the following PCB Layout Design



View larger PCB Layout Design: [PCB Class-D D4K5](#)

DOWNLOAD PCB .PDF: [PCB Layout Design Class D D4K5](#)

Video Tested Class-D D4K5 Amplifier: <https://www.youtube.com/watch?v=IV0nCL2RTz4>

DOWNLOAD: [PCB POWER AMPLIFIER D4K5.PDF](#)

GERBER FILE: [Gerber File Power Amplifier Class-D D4K5](#)

Các bài viết tương tự:

1. [200W HiFi Discrete UcD Class-D Amplifier](#)
2. [500W Class-D Amp IRS20957 SMD](#)

Tài liệu này được tải từ website: <http://linhkienthaomay.com>. Zalo hỗ trợ: 0389937723

3. [Cách điểm test để kiểm tra trước khi chạy Class-D Amplifier D2K Pro Dual Feedback](#)
4. [DIY Class T Power Amplifier Tripath TA2022](#)
5. [DIY Class-D Amplifier Fullbridge D2K 2500W RMS - Bản hoàn thiện](#)
6. [Lò vi sóng GOLDSUN Model: MWO-G22DG - Cho thức ăn vào lò không thấy thức ăn nóng, chuyển chế độ Low, High máy dung và kêu to](#)
7. [Mạch class D là gì ? Và Sơ đồ mạch Class D](#)
8. [Operational Amplifier, Types of Op Amp ICs and Characters](#)
9. [Power Amplifier Class-AB AX-BLAME 90VDC](#)
10. [Power Amplifier Class-D UcD SuperLite v2 Final](#)
11. [saiko high - nguồn vẫn còn](#)
12. [TDA7294 subwoofer amplifier PCB layout](#)