

STK3048 and STK6153 internal circuit is comparatively simple, its tone quality is very good. But the design of the peripheral circuit and application of peripheral component exert a great influence on IC tone quality, so a power amplifier adopts the circuit shown in Fig. 3-42.

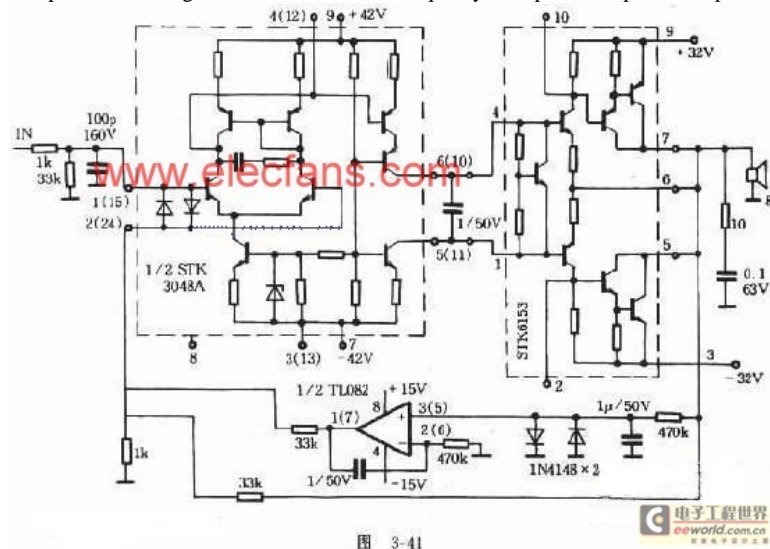


图 3-41

1. Adopt Gm control volume, connect the sound volume potentiometer in IC3 NE5532 Gain to noise temperature ratio control point at last sound volume magnitude in order to changing. STK3048 work is in the best stable condition. Scarcely slip the noise while regulating sound volume. The more important thing is the dynamic range is still constant when low sound volume is played, the music detail behaves thoroughly at the time of big sound volume, there is no messy sense at all.
2. Adopt the negative feedback circuit of constant current, the linear resistance R and R' changes amplifier constant voltage way into the permanent stream mode to drive load, make the step response of the power amplifier be improved, strengthen the efforts of bass and sharpness of the high pitch.
3. Cancel the cycle and shoulder the feedback capacitance, IC4 NE5532 And the peripheral component forms and outputs the zero bit servo circuit of middle point. Use for servo STK3048, 14 The foot, and cause the drift of STK6153 Ausgang direct current potential after to cancelling the feedback capacitance, analyze strength in high, low frequency of improving the amplifier.

The subjective hearing of this amplifier is appraised: The high pitch is very thin and clear, middle pitch is bright and thorough, bass is plump and powerful, the gamut register is well arranged, the harmonic distortion is little, the noise is low, the dynamic range is extremely wide. Because this circuit is relatively large in output power, the power that should pay attention to using should have sufficient capacity, STK6153 heat sink should not be too small. Operational amplifier IC adopts the independent active servo power to supply power. In addition, must install the protective circuit of the loudspeaker with amplifier.

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