

Evolve Power Amplifiers

Contents

Data sheets

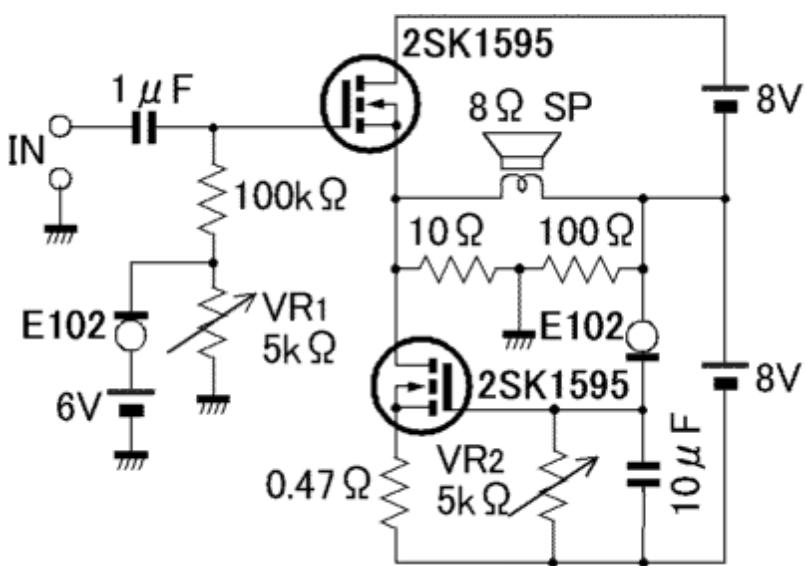
Notes

Links

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Experiment circuit of 2SK1595 class A single ended power amplifier



The experiment circuit of this power amplifier is composed of only two MOS-FET.

Because the source follower circuit of high gm MOS-FET is 100% voltage feedback, the output impedance is very low.

Then, I lowered the rate of the feedback of the source follower circuit, and gave the voltage gain to the source follower circuit.

The voltage gain is 11 in the ratio of $10f\Psi$ and $100f\Psi + 10f\Psi$.

The adjustment sets the voltage at both ends of $0.47f\parallel$ to 0.47V with VR2 with the speaker removed.

The idling current becomes 1A by this. Next, set the voltage of the speaker connection point to 0V with VR1.

The maximum output power is about 2.5W in 8Ω load. The output impedance is about 0.8Ω.

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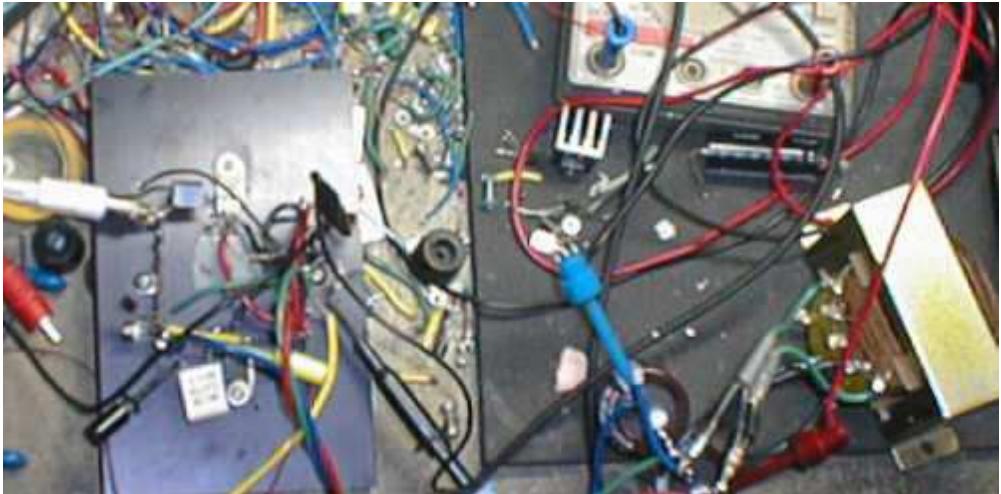
“dCE, fA⁰⁰₈₁[fX, C, c, , f, ½⁰⁰ó’O, Å, ·, C, c⁰⁰]AfXfefŒfIfAf“fv, Æ, ·, é⁰⁰ê⁰⁰‡, É, I“dCE, ð
—L, É, Å, «, È, f, I, Å⁰⁰A“dCE⁰⁰f gf%o f“fX, ÅfAfCf\fŒ⁰⁰[fVf‡f“, ³, ê, ½2‘g, I“dCE, a•K—v, Å, ·⁰⁰B

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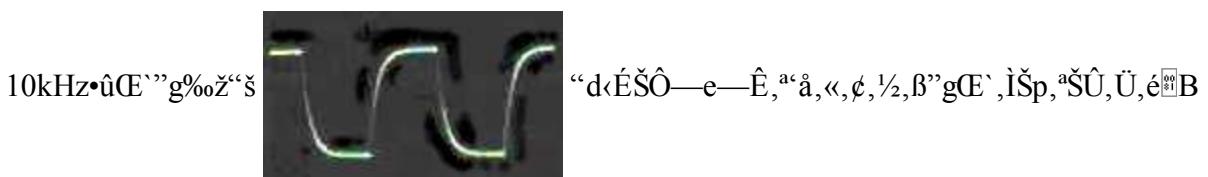
“d³fQfCf”, I10f¶, Æ100f¶+10f¶, I”ä, Å11”{, Å·§1B

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