

## maneuvering room mic e

It is centered on the audio notebook homebrew

### Selected discrete components amplifier OP

For downsizing, this discrete amplifier OP wants to use the composite element anyway.

With a little research, the following two types of candidate dual N-ch J-FET of the first stage.

2SK2145 (SC-74A package = SC-59 5-pin)  
2SK3320 (SC-88A package = SC-70 5-pin)

Toshiba is both. However, because the only available 2SK2145, you do not need to be selected.

But because there is only dual JFET of Toshiba N-ch, 2-stage differential amplifier is going to use a dual PNP transistor.

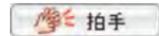
If there are several candidates for dual PNP transistor.

Candidate for SC-74A packages:  
(Toshiba) 2SA1618  
uPA501T (now Renesas NEC /)

Candidate for SC-88A packages:  
(Toshiba) 2SA1873  
RT2A00M / RT2A00AM1 (e Isahaya)  
uPA571T (now Renesas NEC /)

For dual PNP differential amplifier and said, you do not come up with only 2SA798/2SA979 Mitsubishi, The final electronic chose RT2A00M Isahaya which inherited the business of Mitsubishi small signal transistor.

I think because it is very close to the specs of RT2A00M and Mitsubishi 2SA999, sound quality similar trend can be expected.



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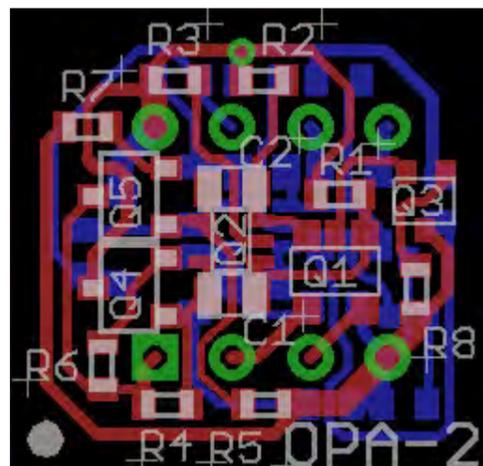
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[Top of page](#)

### Discrete OP amplifier (dual version)

The layout of the OP amp circuit containing two was completed safely.

So that it can be mounted on a wider range of equipment, this size was smaller than the previous single version.



(15.7x15.3mm)



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2011-05-28 (01:52): [OP amplifier](#) : [Comments 2](#) : [0 Trackbacks](#)

[Top of page](#)

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[2011/12 \(1\)](#)

[2011/11 \(2\)](#)

[2011/09 \(3\)](#)

[2011/07 \(3\)](#)

[2011/06 \(7\)](#)

[2011/05 \(3\)](#)

[2011/04 \(4\)](#)

[2011/02 \(1\)](#)

[2011/01 \(1\)](#)

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[OP Amp \(9\)](#)

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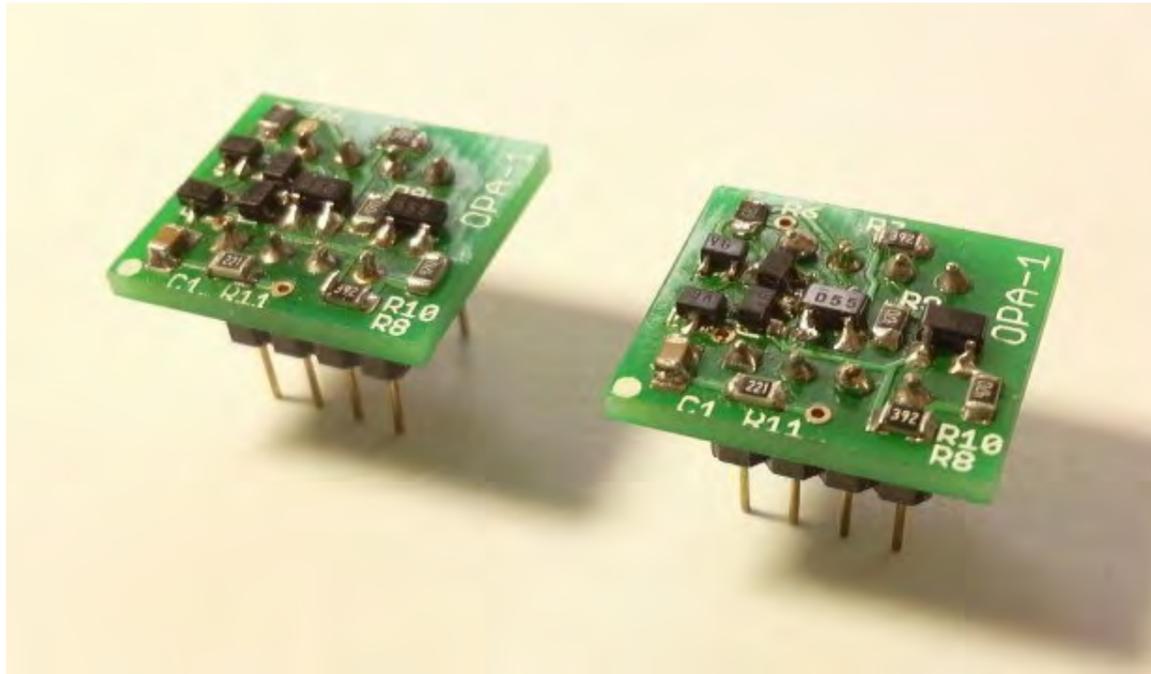
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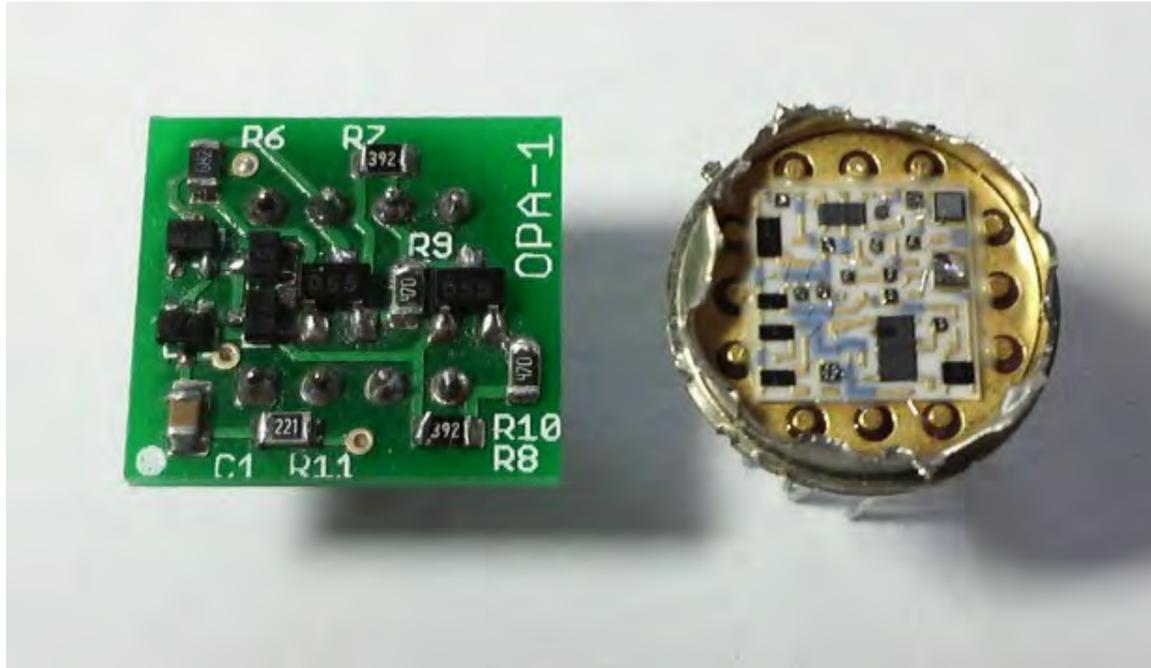
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**I tried to DIP-8 amplifier Kaneda formula (completed)**

Kaneda formula so tiny amplifier finished safely, we compared hear immediately attached to the DAC. A still sound better than IC, discriminator circuit is quite happy for the result. I made one because OP amp circuit pack is not used very often, but this time the circuit containing two of good luck.



Comparison between the hybrid LH0032: bonus. I can not compare with the LH0032 precision of course.



Subject: [Audio](#)  
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[Top of page](#)

**I tried to DIP-8 expression amp Kaneda**

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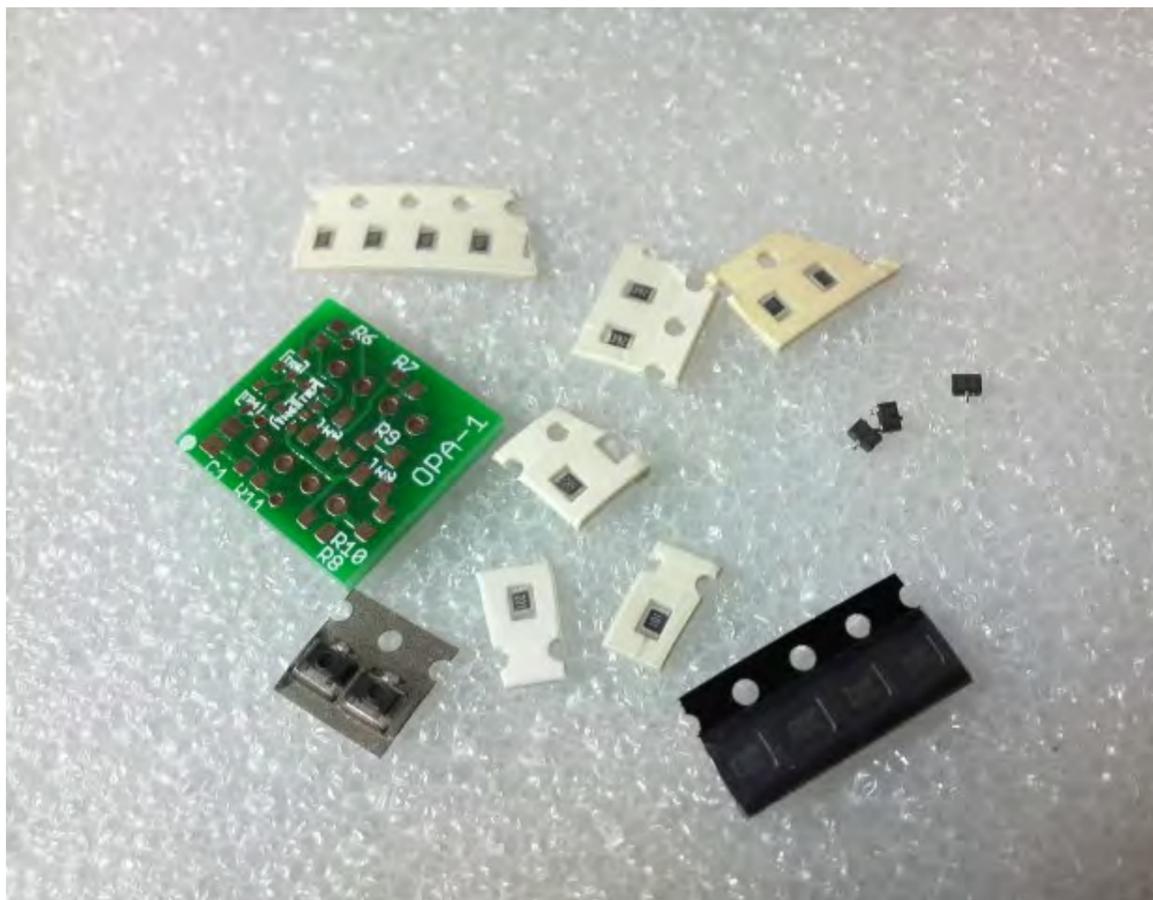


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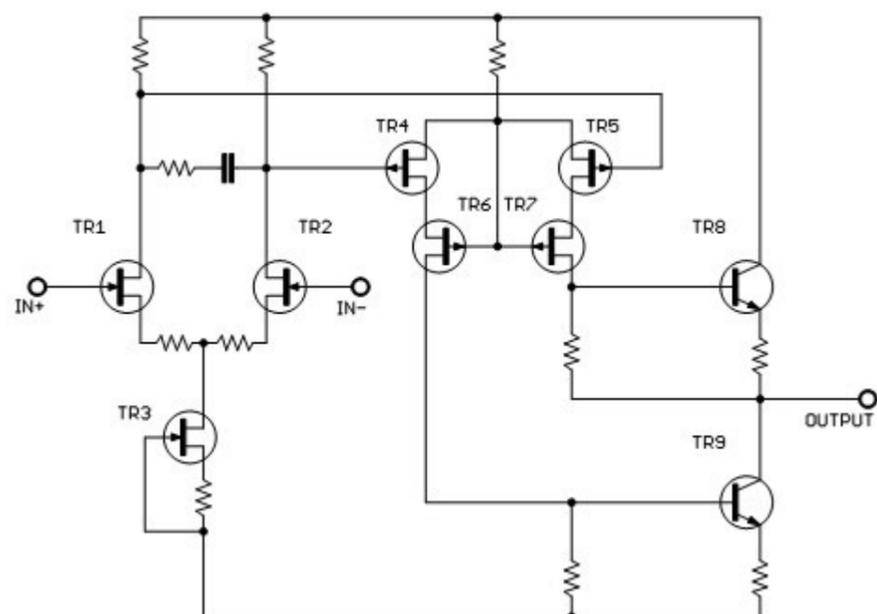




In order to compare under the same conditions as other amplifier OP, I teamed up on a substrate in an ultra-small amplifier Kaneda expression.

Conforms to the flat amplifier circuit of nearly No.198, 17.2x15.6mm slightly, all surface-mount components, board size element is used in the pseudo Will not say anymore Kaneda formula.

Actual circuit diagram is shown below.



Tr1-3: 2SK880, Tr4-7: 2SJ144, Tr8-9: 2SD780A

At first glance is the same as No.198, is actually a N-Type.

2SC959 and 2SA606 because it is absolutely impossible into SMD at all, I was selected to be the most similar standard in the SC-59 package.

So 200mW, Pc element of the final stage collector current is set to about 5mA. There is a possibility that the final stage elements and broken it more current.



Subject: [Audio](#)

Genre: [Hobbies & Practical](#)

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[Top of page](#)

[«Previous Page Home](#)

[Top of page](#)