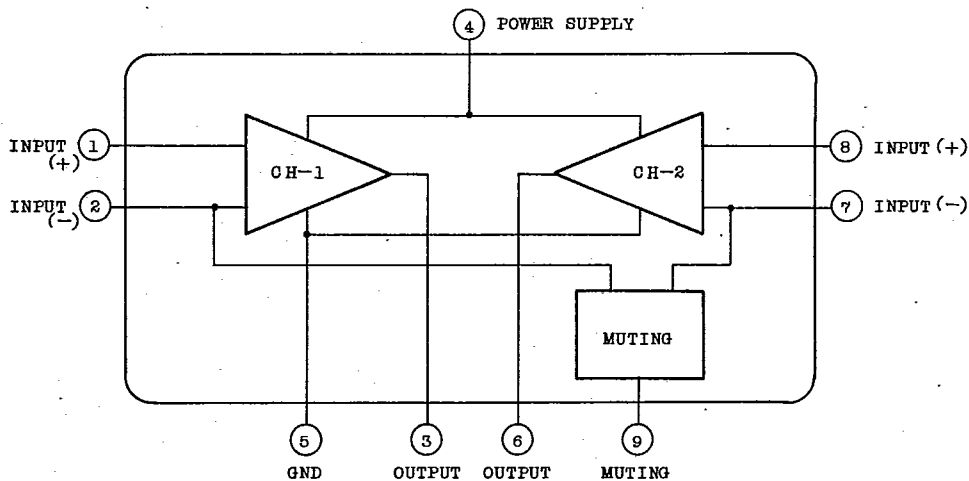




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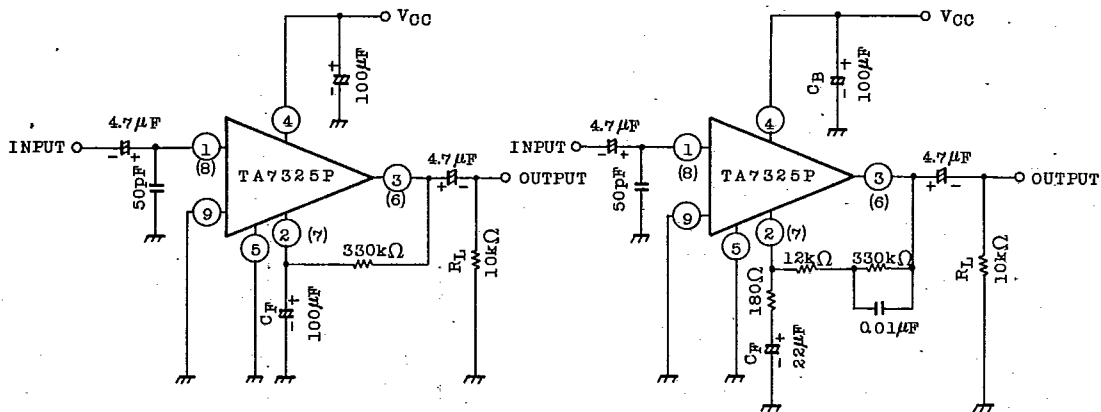
## EQUIVALENT BLOCK DIAGRAM



## TEST CIRCUIT

1.  $G_{VO}$ ,  $I_{CC}$

2.  $V_{OM}$ ,  $V_{NI}$ ,  $R_{IN}$ ,  $R_{R}$



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## APPLICATION

### (1) DECIDE OF FEEDBACK RESISTANCE

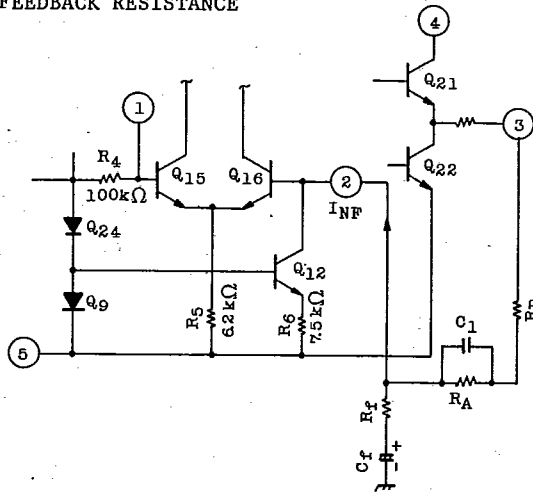


Fig.1

Fig.1 shows the internal circuit.

The optimum D.C output voltage is decided by following equation.

$$V_3 = \frac{1}{2}V_{CC} = V_2 + I_{NF}(R_A + R_B)$$

$$I_{NF} = 10\mu A$$

$$V_3 = \frac{1}{2}V_{CC}$$

$$= V_2 + I_{NF}(R_A + R_B) \quad (V)$$

$$V_2 = V_{BE}(Q_9) + V_{BE}(Q_{24}) = 2V_{BE} \cong V_1$$

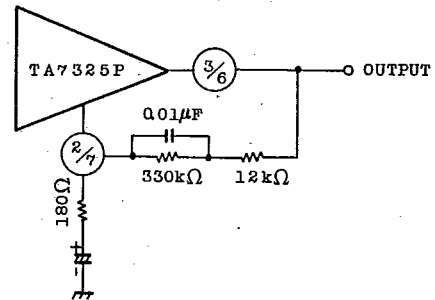
$$V_3 = \frac{1}{2}V_{CC} = 5 = 2V_{BE} + I_{NF}(R_A + R_B)$$

$$= 1.4 + 10 \times 10^{-6}(R_A + R_B)$$

$$R_A + R_B = \frac{5 - 1.4}{10 \times 10^{-6}}$$

$$= 3.6 \times 10^5$$

$$= 360 \quad (k\Omega)$$



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## (2) MUTING CIRCUIT APPLICATION

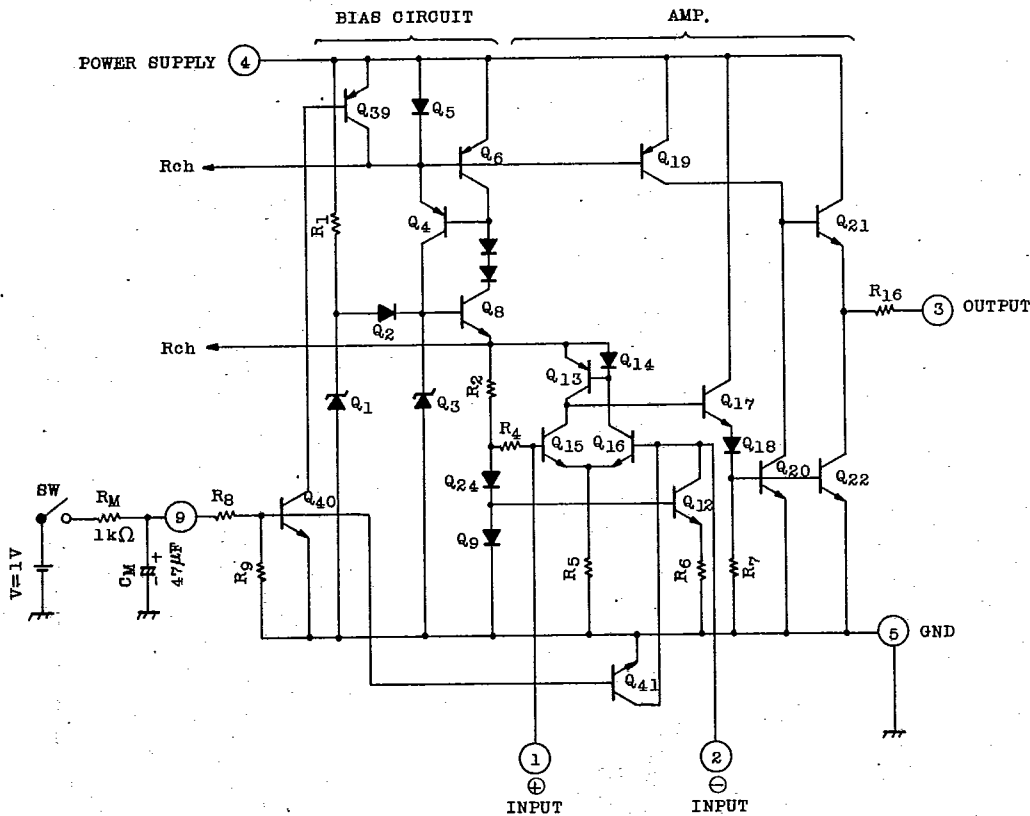


Fig.2

Fig.2 shows the equivalent circuit of (L ch) TA7325P.

The Q40 is turned ON when the voltage above 0.9V feed into PIN 9, Q41 and Q39 'turned ON' consequently and the muting operation obtained.

### (3) NOTE

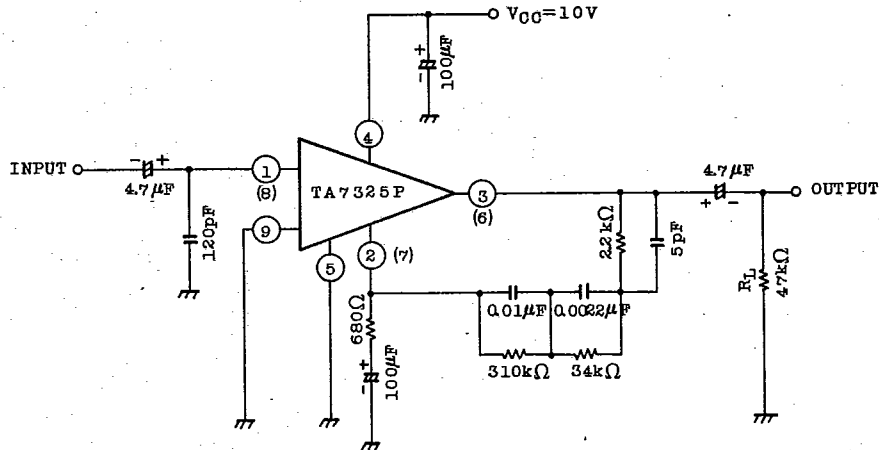
- Care should be taken not to decrease a closed loop gain less 20dB cause parasitic oscillation.
- The maximum allowable input voltage is 300 mVrms not to increase the input voltage above this value for stable operation.

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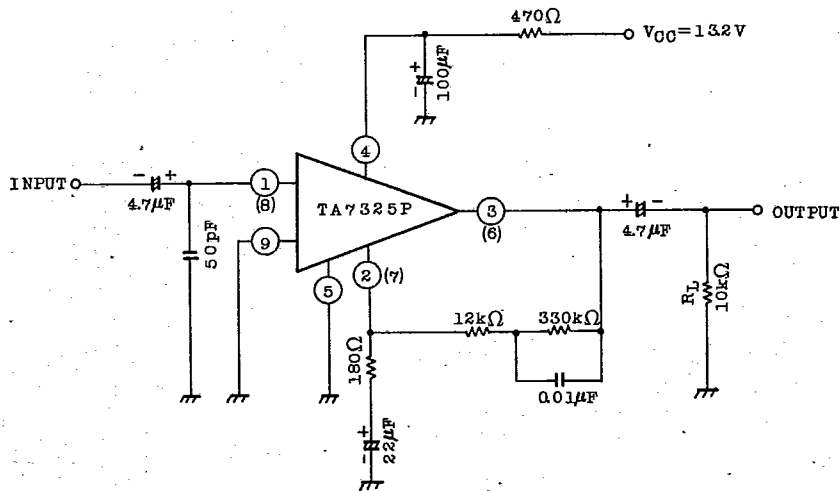
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## APPLICATION

### 1. RIAA EQ

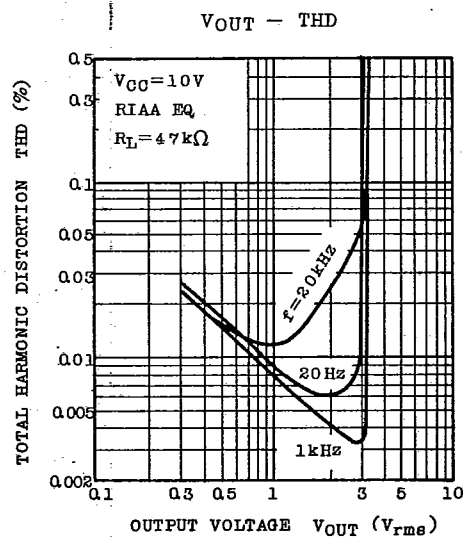
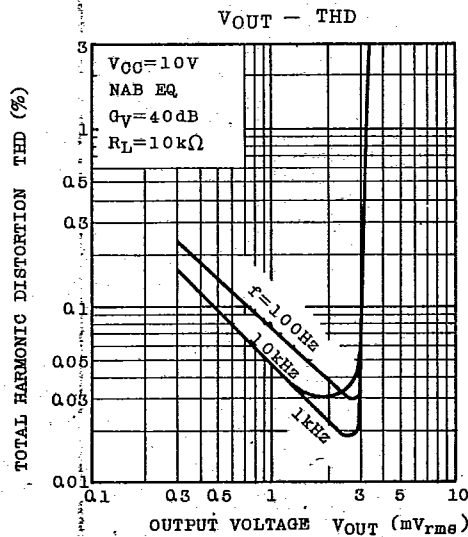
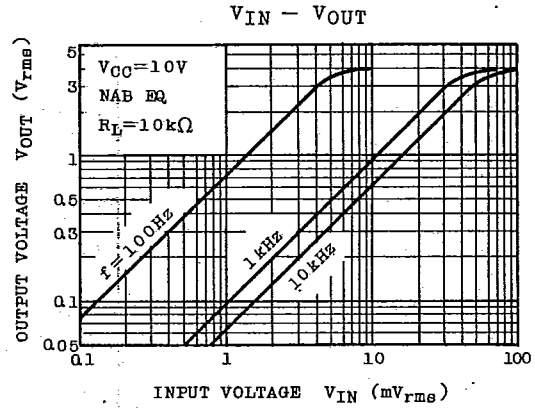
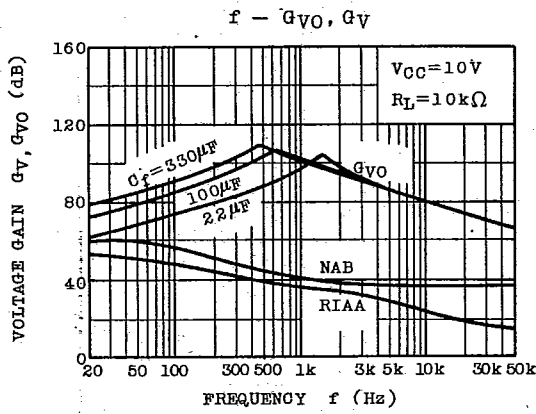
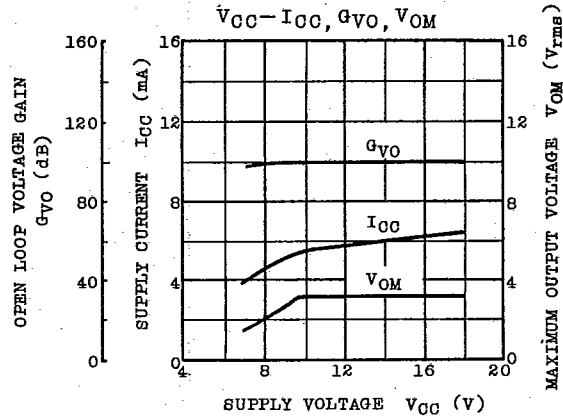
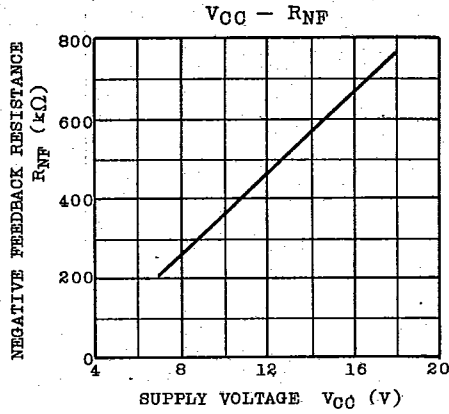


### 2. NAB EQ



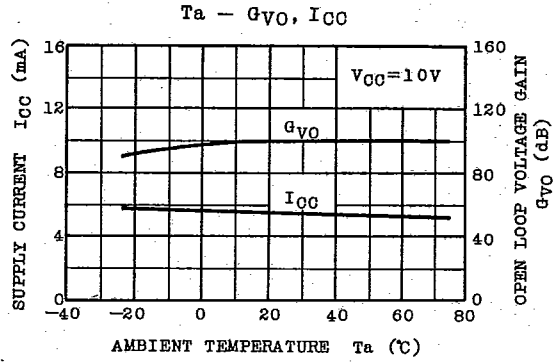
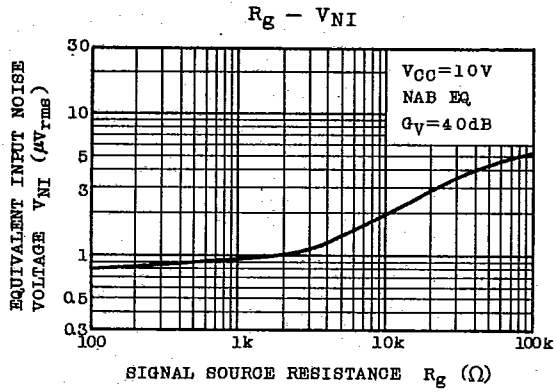
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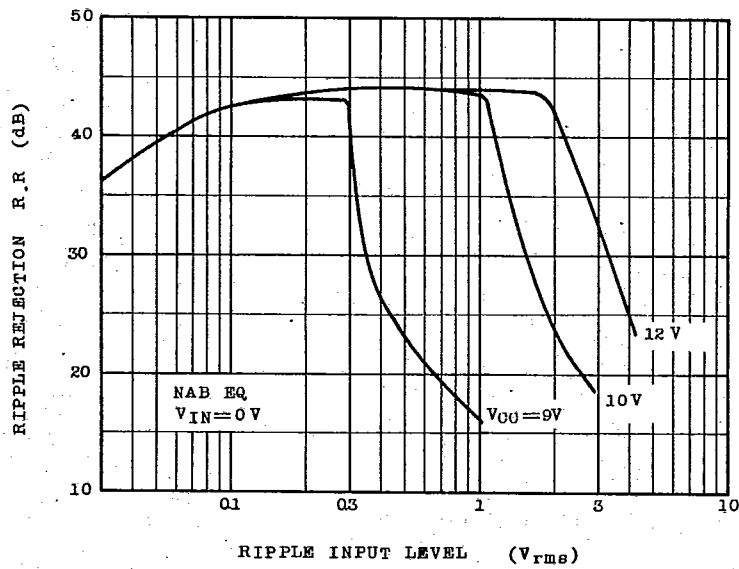


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**R.R. - RIPPLE LEVEL**



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