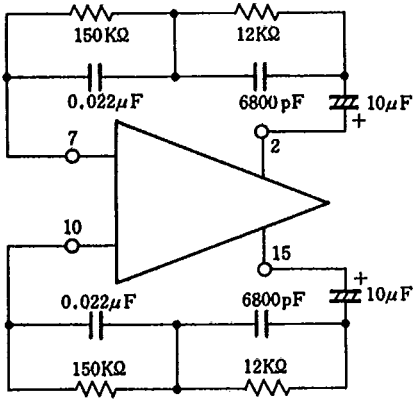
ECG1083

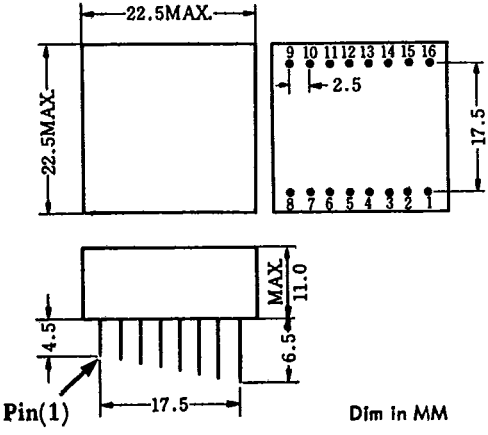
DUAL CHANNEL HYBRID AUDIO PRE-AMPLIFIER MODULE

Test Circuits

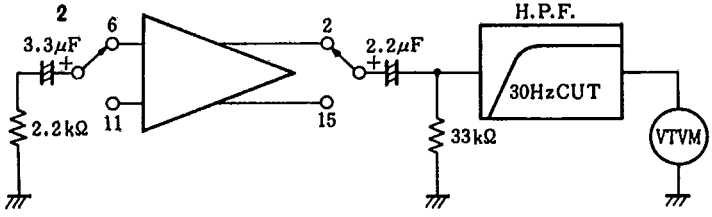
1 Noise Figure

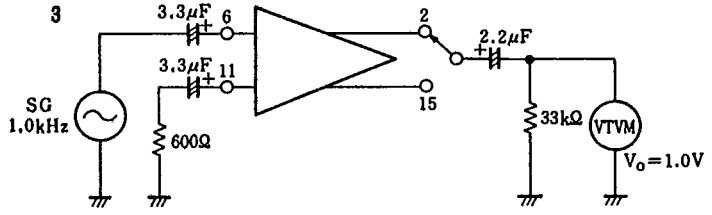


Outline

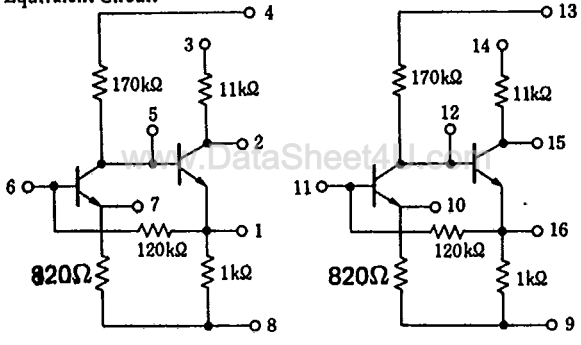


Dim in MM





Equivalent Circuit



Absolute Maximum Ratings (T_a=25°C)

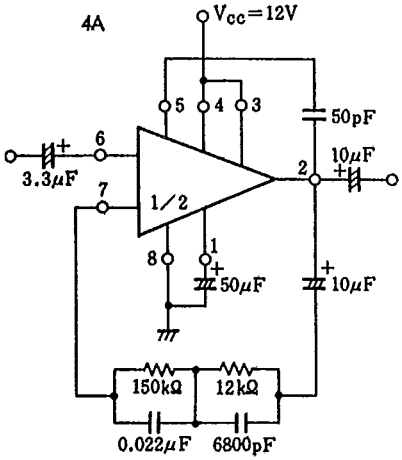
V_{cc}	28	V
I_{cc}	5	mA
V_i input	1.0	V
T_{opt}	−20~+65	℃
T_{stg}	−30~+80	℃

Electrical Characteristics (T_a=25℃ V_{cc}=12V)

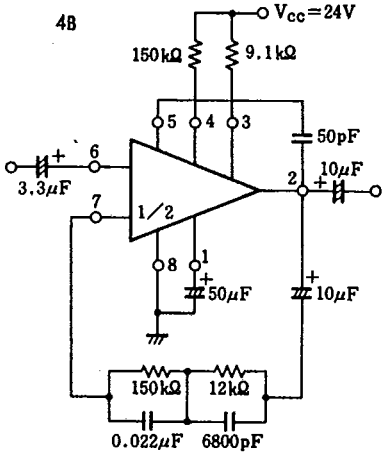
Item	Conditions	Test Ckt.	Min	Typ	Max	Units
Avo	f=1.0KHz, R_L=33KΩ		60	64		dB
Vomax	f=1.0KHz, R_L=33KΩ	1	2.2	2.5		V
NL		1			60	μV
T.H.D	V_o=1.0V_{rms} f=1.0KHz, R_L=33KΩ	1			0.1	%
r_i	f=1.0KHz, R_L=33KΩ	1	100	120		KΩ
r_o	f=1.0KHz	1		40	100	Ω
			−60			dB
Icc				670		μA

Test Circuits

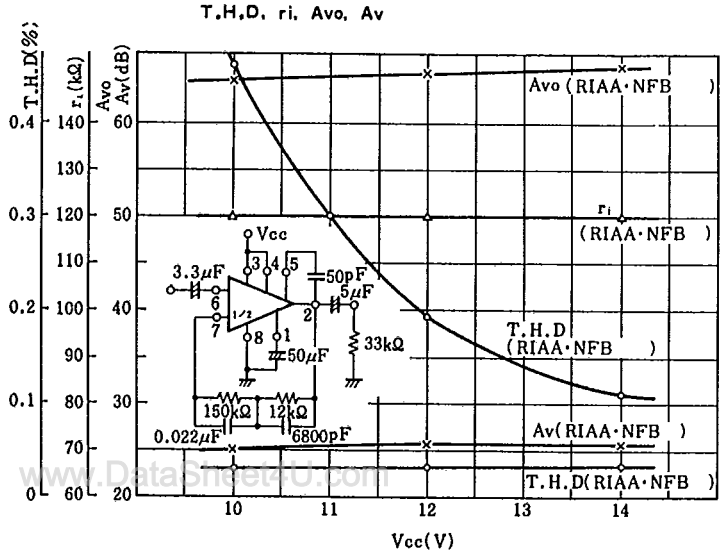
4A



4B

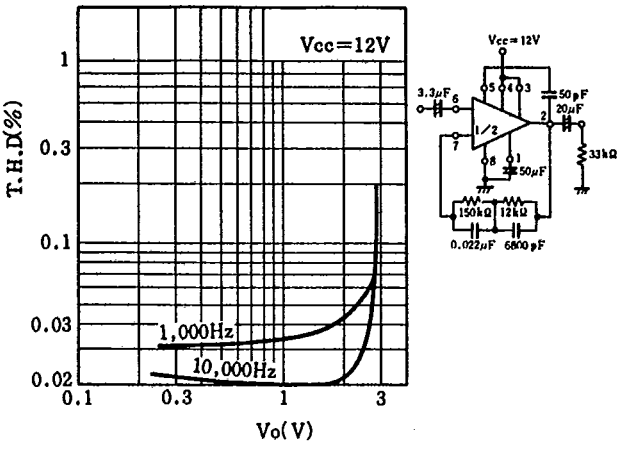


T.H.D, ri, Avo, Av

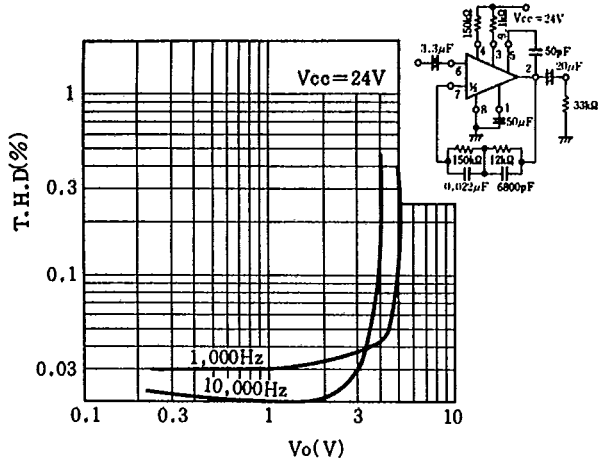


Signal Frequency 1.0KHz
Signal Level −60dBm(0.775mV)
Output Voltage 1.0VOLT (T.H.D, r_i)

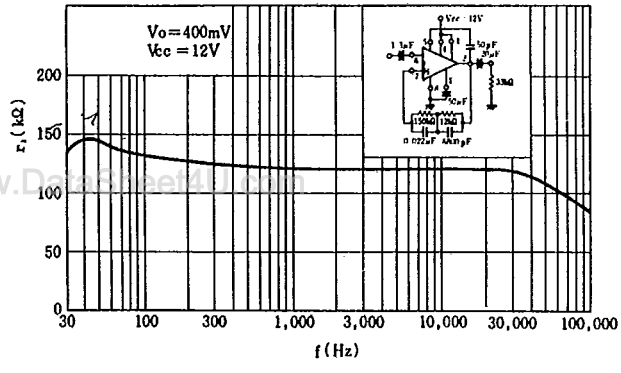
Total Harmonic Distortion vs. Output Voltage



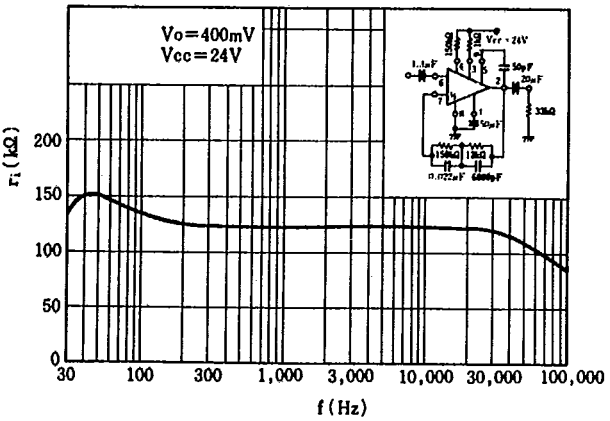
Total Harmonic Distortion vs. Output Voltage



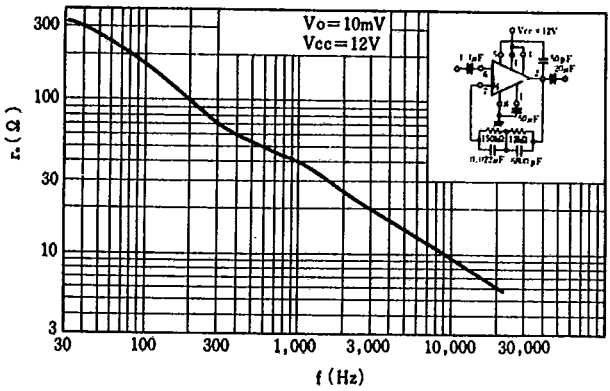
Input R vs. Frequency



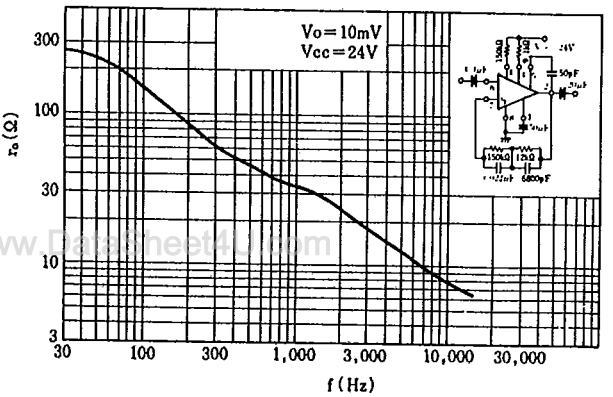
Input R vs. Frequency



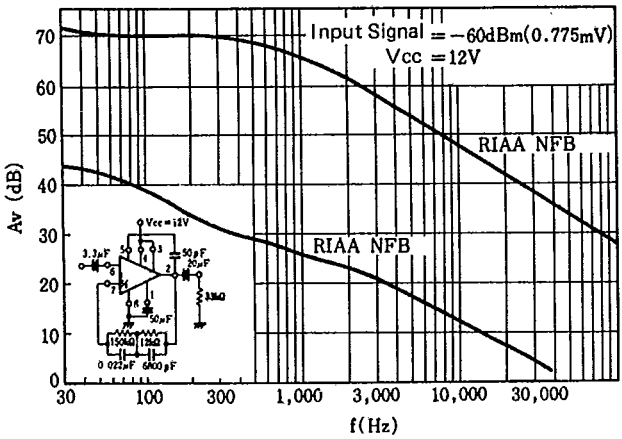
Output R vs. Frequency



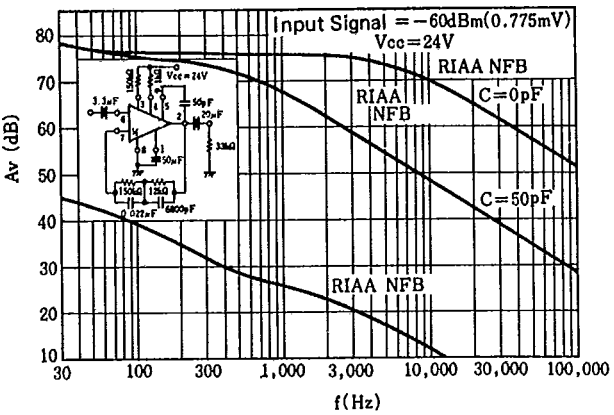
Output R vs. Frequency



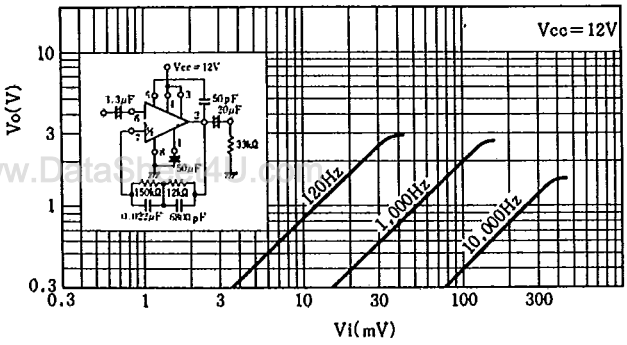
Voltage Gain vs. Frequency



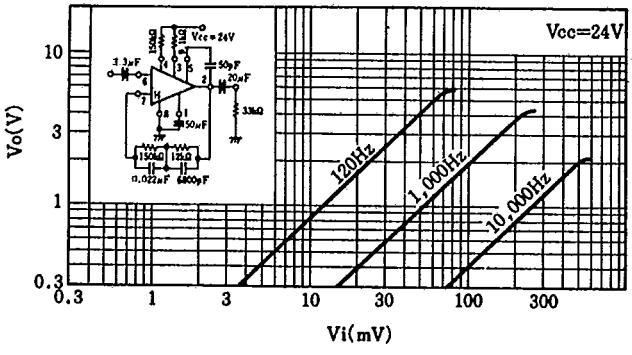
Voltage Gain vs. Frequency



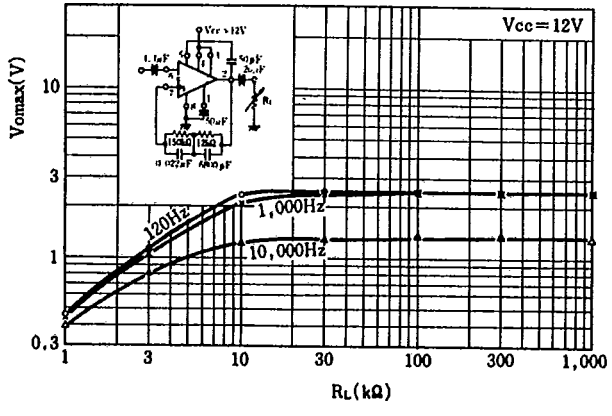
Output Voltage vs. Input Voltage



Output Voltage vs. Input Voltage



Output Voltage vs. RL



Output Voltage vs. RL