SPECIFICATIONS

No.

STK442-110

2000.06.05

TENTATIVE

1. Case Outline 14Pins (See attached outline drawing)
2. Function class AB 2 channels AF power amplifier
3. Application 70W audio use
4. Maximum Ratings / Ta=25deg.

Item	Symbol	Conditions	Ratings	Unit
Power Supply Voltage 1	Vcc max(1)	No signal	+-61.5	V
Power Supply Voltage 2	Vcc max(2)	Signal ,R_L=8ohm ,6ohm	+-54	V
Thermal Resistance	Theta j-c	Per one power TR	1.9	deg./W
Junction Temperature	Tj max		150	deg.
Operating Substrate Temperature	Tc max		125	deg.
Storage Temperature	Tstg		-30 to +125	deg.
Available Time for Load Short-circuit *4	ts	Vcc=+-38V,R_L=6ohm,f=50Hz P_O=70W,1ch drive	0.3	s

5. Operating Characteristics

Tc=25deg.,R_L=6ohm(Non-inductive Load),R_g=600ohm,V_G=30dB

Item	Symbol	Conditions *2					Ratings			Unit
		V (V)	f (Hz)	Po (W)	THD (%)		MIN.	TYP.	MAX.	
Output Power *1	Po1	+-38	20 to 20k		0.4		70			W
	Po2	+-38	1k		10			110		
THD *1	THD	+-38	20 to 20k	70				0.2		%
Frequency Characteristics *1	f_L,f_H	+-38		1.0		+0 -3 dB	20 to 50k			Hz
Input Impedance	r_i	+-38	1k	1.0				55		kohm
Output Noise Voltage *3	V_{NO}	+-46				Rg=2.2 kohm			1.0	mVrms
Quiescent Current	I_{CCO}	+-46							80	mA
Output Neutral Voltage	V_N	+-46					-70	0	+70	mV

*Specifications and information herein are subject to change without notice.

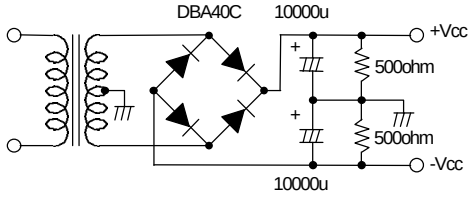
Note *1.1ch Drive

*2.All tests are measured using a constant-voltage supply unless otherwise specified.

*3.The output noise voltage is peak value of an average-reading meter with a rms value scale(VTVM). A regulated AC supply(50Hz) should be used to eliminate the effects of AC primary line flicker noise.

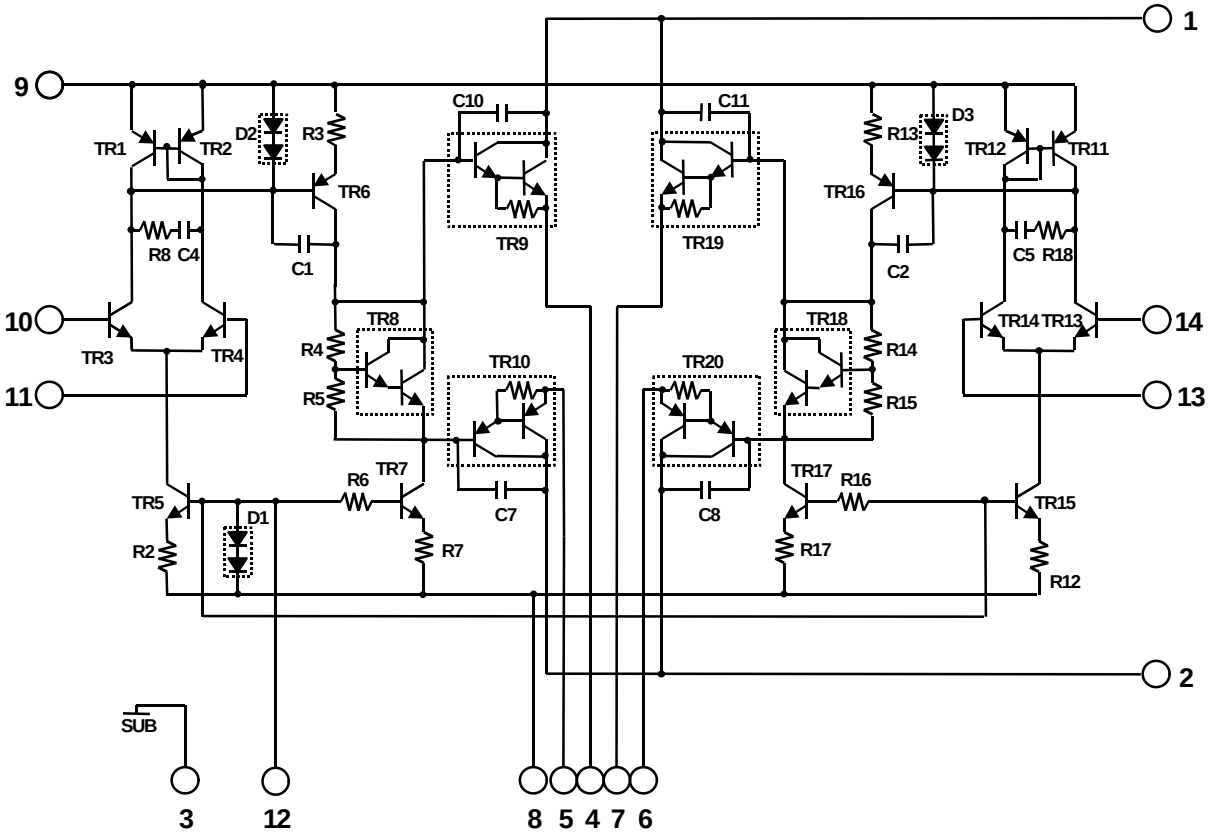
*4.Available time for load short-circuit and output noise voltage are measured using the specified transformer power supply.

Specified Transformer Power Supply

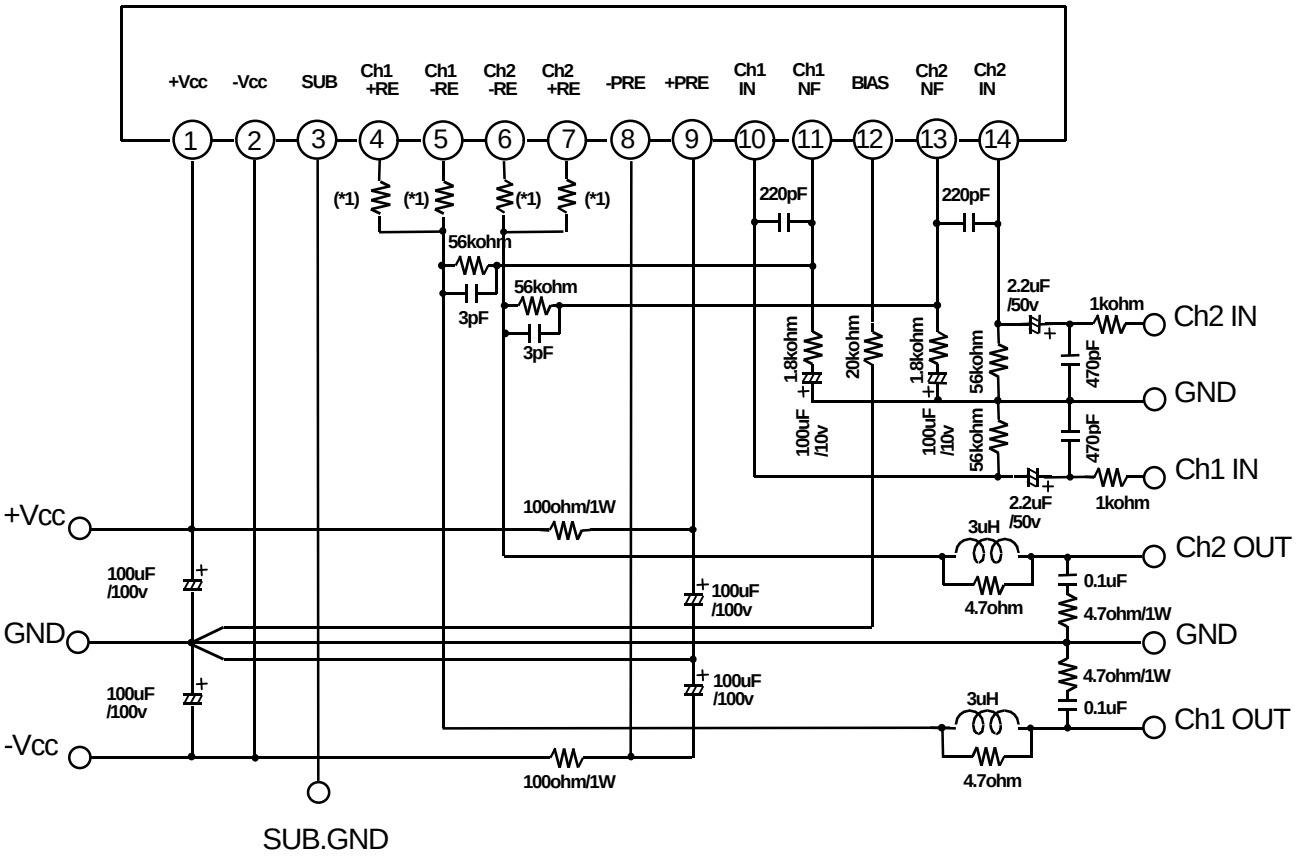


(Equivalent to MG-250)

Equivalent Block Diagram



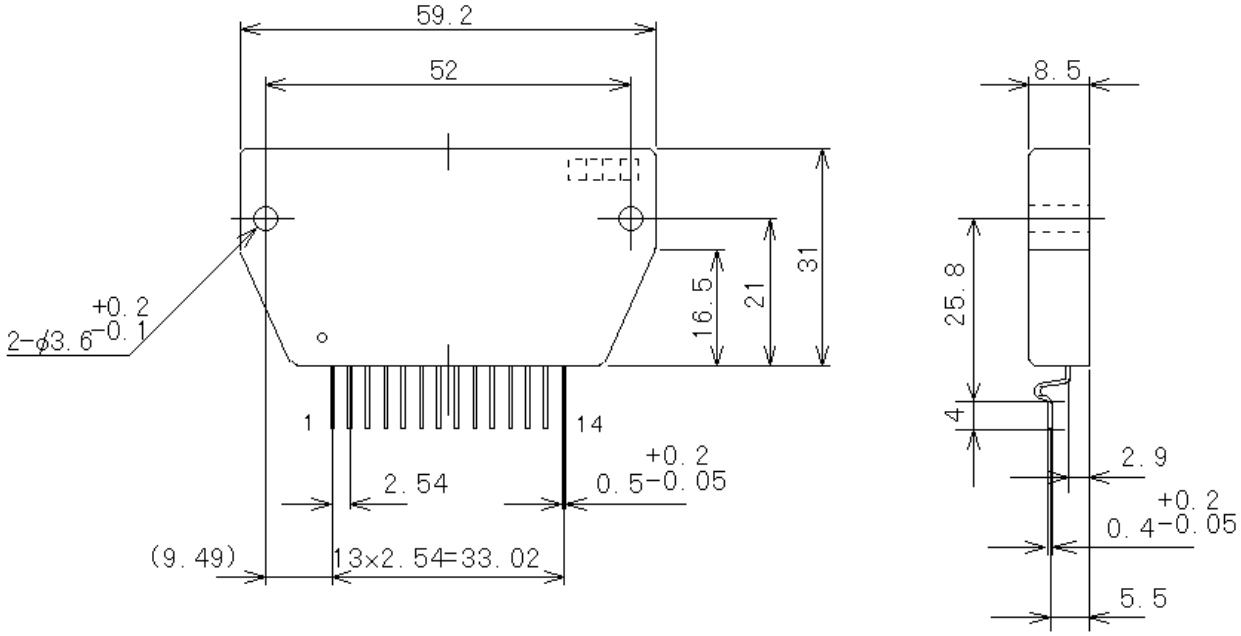
Test Circuit



(*1)Metal Plate Cement Resistor 0.22ohm+-10%(5W)

Case Outline

Unit:mm



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