

# 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 ,RL=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,RL=6ohm,f=50Hz Po=70W,1ch drive	0.3	s

### 5. Operating Characteristics

Tc=25deg.,RL=6ohm(Non-inductive Load),Rg=600ohm,VG=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	fL,fH	+38		1.0		+0 -3 dB	20 to 50k		Hz	
Input Impedance	ri	+38	1k	1.0			55		kohm	
Output Noise Voltage *3	VNO	+46				Rg=2.2 kohm		1.0	mVrms	
Quiescent Current	Icco	+46						80	mA	
Output Neutral Voltage	VN	+46					-70	0	+70	mV

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

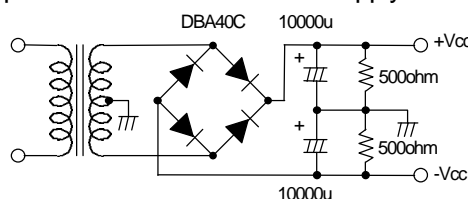
Note \*1.1ch Drive

\*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.

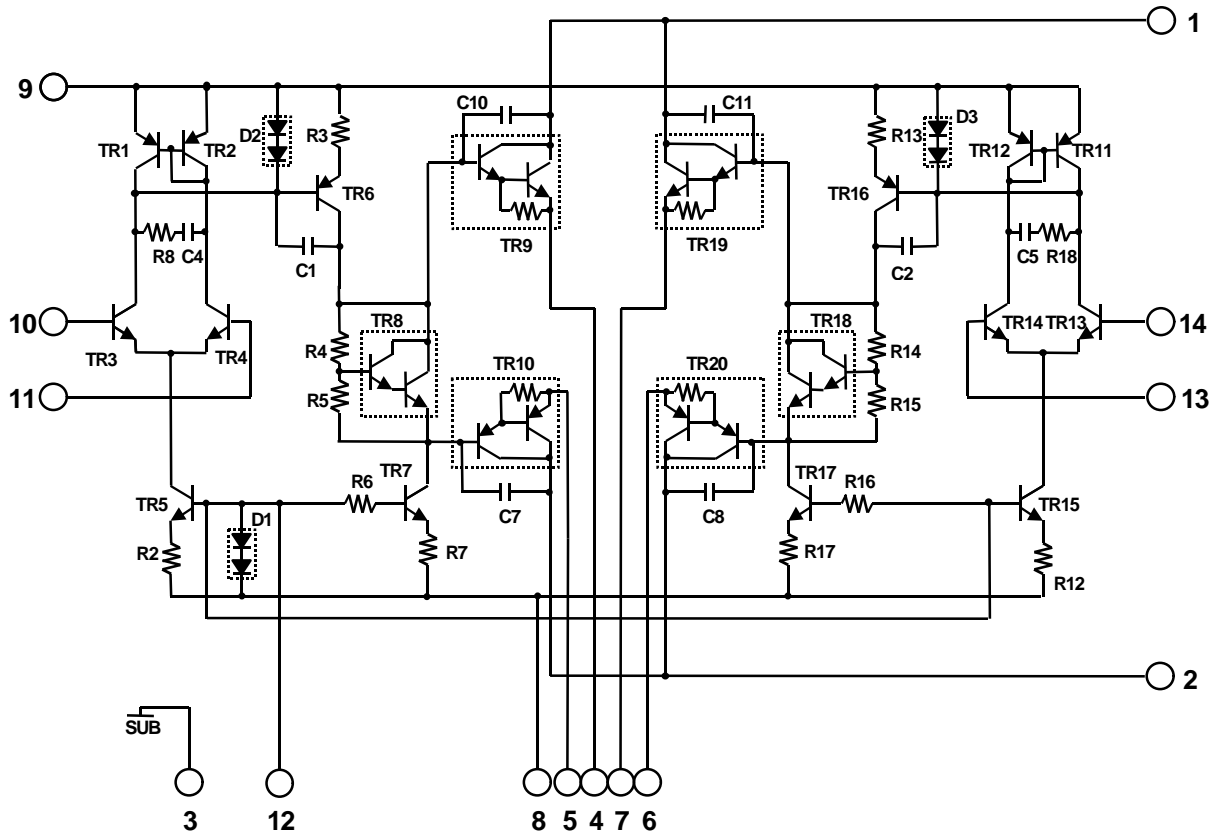
\*4.Available time for load short-circuit and output noise voltage are measured using the specified transformer power supply.

Specified Transformer Power Supply

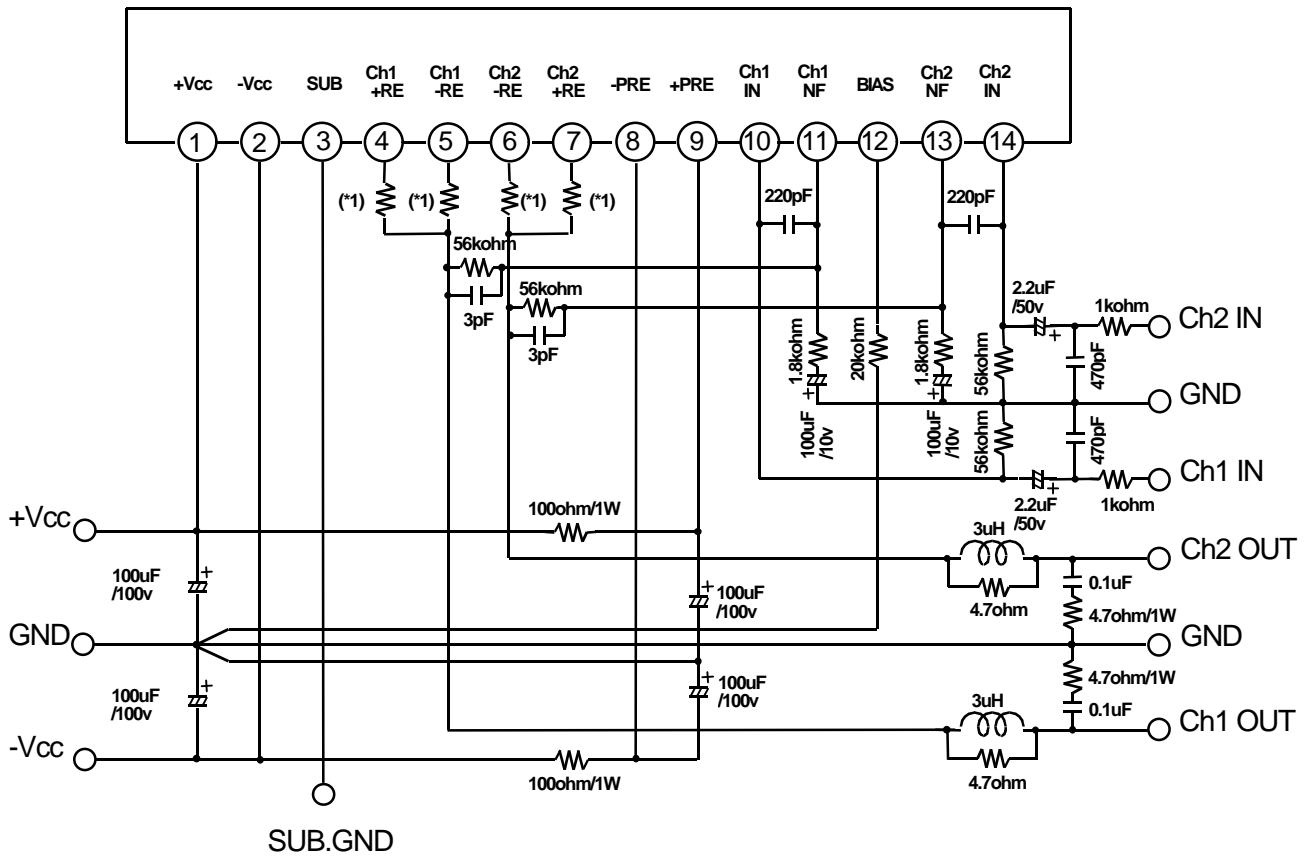


(Equivalent to MG-250)

# Equivalent Block Diagram



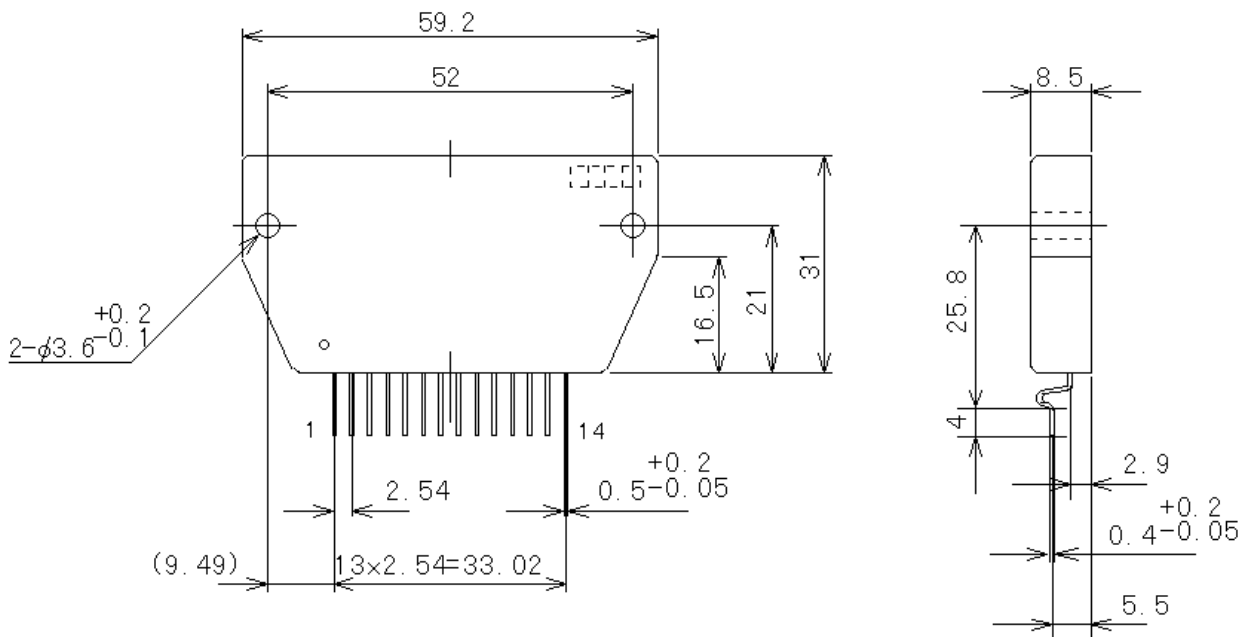
# Test Circuit



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

## Case Outline

Unit:mm



- \* No production described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure, of which may directly or indirectly cause injury, death or property loss
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