

STK350-010

2-Channel AF Voltage Amplifier (60 to 80W/channel supported)

Overview

The STK350-010 is a voltage amplifier for use in audio power output stages. It comprises a 2-channel amplifier integrated in a small package, making possible audio set miniaturization and design simplification.

Features

- Split power supply for wide bandwidth (f=20Hz to 20kHz).
- Member of a family of devices with power capacities from 40W to 150W.
- Compact package.
- High withstand voltage.

Series Configuration

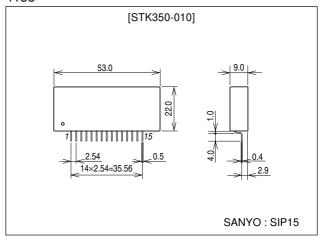
The STK350-010 is a member of a family of devices with differing output capacities.

Type No.	V _{CC max}	V _{CC}	THD [%]	Tc max [°C]	Power [W] (R _L =8Ω)
STK350-000	±55	±36	0.005	115	40 to 60
STK350-010	±59	±41	0.005	115	60 to 80
STK350-020	±65	±47	0.005	115	80 to 90
STK350-030	±75	±50	0.005	115	90 to 100
STK350-040	±80	±55	0.005	115	100 to 120
STK350-050	±90	±60	0.005	115	120 to 150

Package Dimensions

unit:mm

4155



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Specifications

Maximum Ratings at $Ta = 25^{\circ}C$

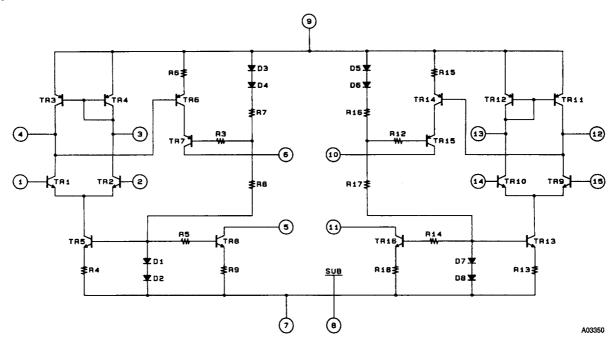
Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	V _{CC} max		±59	V
Operating temperature	Tc		115	°C
Storage temperature	Tstg		-30 to +115	°C

Operating Characteristics at Ta = 25°C, VG=40dB, specified test circuit

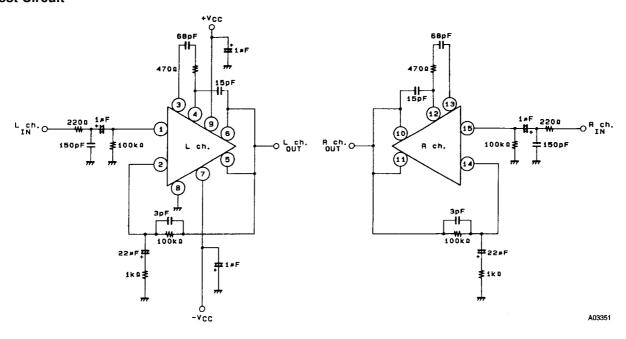
Parameter	Symbol	Conditions	Ratings			Unit
Farameter			min	typ	max	Offic
Current drain	I _C C	V _{CC} =±48V		20	30	mA
Neutral voltage	V _N	V _{CC} =±48V	-70		+70	mV
Output noise voltage	V _{NO}	V_{CC} =±48V, Rg=10k Ω			1.0	mVrms
Input impedance	rį	V _{CC} =±48V, f=1kHz, V _O =2.83V		100		kΩ
Total harmonic distortion	THD	V _{CC} =±41V, f=20kHz, V _O =22.0V			0.005	%

Note. All tests are made using a constant-voltage supply.

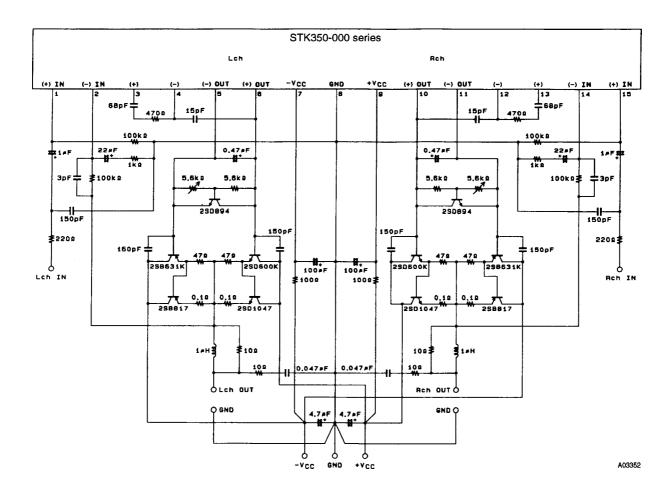
Equivalent Circuit



Test Circuit



Sample Application Circuit-60W/8 Ω Amplifier (V_{CC}= \pm 41V)



STK350-010

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