Thick Film Hybrid IC



STK4050II

AF Power Amplifier (Split Power Supply) (200W min, THD = 0.4%)

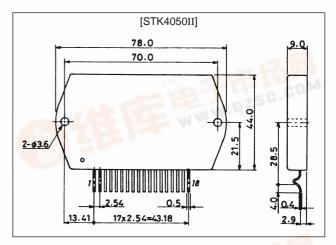
Features

- Compact package for thin-type audio sets
- Member of pin-compatible series with outputs of 20 to 200W
- · Easy heatsink design to disperse heat generated in thintype stereo sets
- Constant-current circuit to reduce supply switch-on and switch-off shock noise
- External supply switch-on and switch-off shock noise muting, load short-circuit protection, thermal shutdown and other circuits can be tailored-designed.

Package Dimensions

unit: mm

4051A



Specifications

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

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	V _{CC} max	The fine	±95	V
Thermal resistance	Өј-с	C. COM	0.95	°C/W
Junction temperature	WW WI, D. L.		150	°C
Operating substrate temperature	Tc		125	°C
Storage temperature	Tstg		-30 to +125	°C

Recommended Operating Conditions at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Recommended supply voltage	V _{CC}	-157 6/6	±66	V
Load resistance	R _L	A Park	8	Ω
四维库	WWW.DZS	6.60		

STK4050II

$\textbf{Operating Characteristics} \ \ \text{at Ta} = 25^{\circ}C, \ V_{CC} = \pm 66V, \ R_L = 8\Omega \ \ (\text{noninductive load}), \ Rg = 600\Omega, \ VG = 40dB$

Parameter	Symbol	Conditions	min	typ	max	Unit
Quiescent current	I _{cco}	V _{CC} = ±80V	15	-	120	mA
Output power	P _O	THD = 0.4%, f = 20Hz to 20kHz	200	_	_	W
Total harmonic distortion	THD	P _O = 1.0W, f = 1kHz	-	-	0.3	%
Frequency response	f _L , f _H	$P_O = 1.0W$, $^{+0}_{-3} dB$	-	20 to 50k	-	Hz
Input impedance	r _i	P _O = 1.0W, f = 1kHz	-	55	-	kΩ
Output noise voltage	V _{NO}	$V_{CC} = \pm 80V$, $Rg = 10k\Omega$	-	-	1.2	mVrms
Neutral voltage	V _N	V _{CC} = ±80V	-70	0	+70	mV

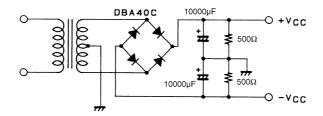
Notes.

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

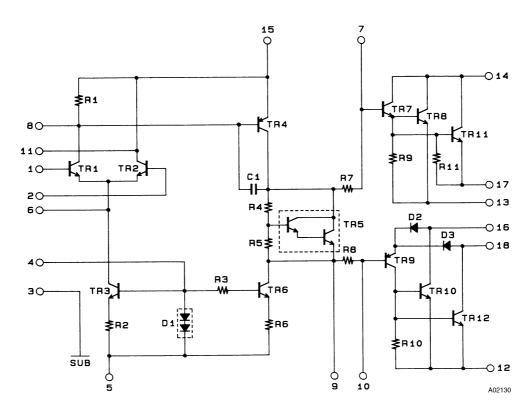
Output noise voltage is measured using the transformer supply specified below.

The output noise voltage is the peak value of an average-reading meter with an rms value scale. The noise voltage waveform does not inlcude any pulse noise.

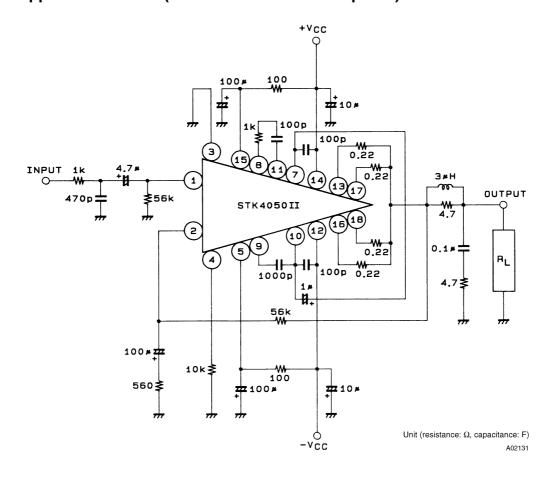
Specified Transformer Supply (MG-250 or Equivalent)



Equivalent Circuit



Sample Application Circuit (200W min AF Power Amplifier)



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