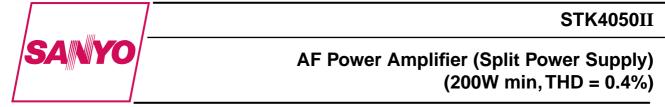
Thick Film Hybrid IC



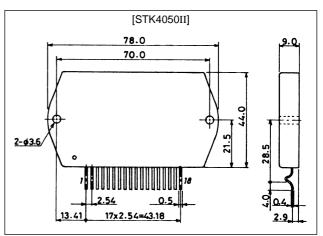
Features

- 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		±95	V
Thermal resistance	өј-с		0.95	°C/W
Junction temperature	Tj		150	°C
Operating substrate temperature	Tc		125	°C
Storage temperature	Tstg		-30 to +125	°C

Recommended Operating Conditions at $Ta = 25^{\circ}C$

Parameter	Symbol	Conditions	Ratings	Unit
Recommended supply voltage	V _{CC}		±66	V
Load resistance	RL		8	Ω

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Operating Characteristics at Ta =	25° C, $V_{CC} = \pm 66$ V, $R_{L} = 8\Omega$ (noninductive load), $Rg = 600\Omega$, $VG = 40$ dB
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Parameter	Symbol	Conditions	min	typ	max	Unit
Quiescent current	Icco	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	$P_0 = 1.0W, +0 \\ -3 \\ dB$	-	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 Ω	-	-	1.2	mVrms
Neutral voltage	V _N	$V_{CC} = \pm 80V$	-70	0	+70	mV

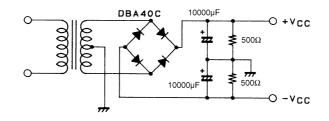
Notes.

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

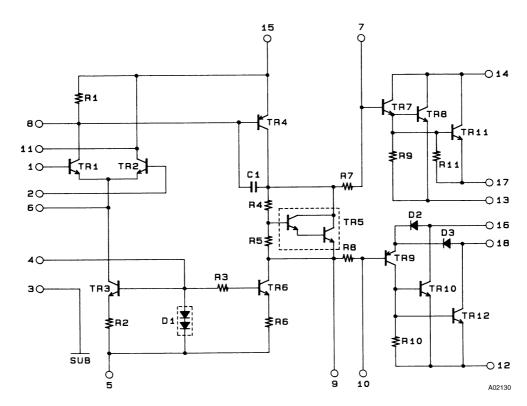
Output noise voltage is measured using the transformer supply specified below.

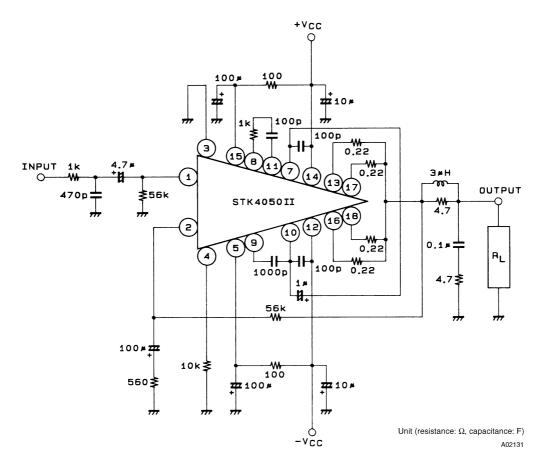
The output noise voltage is the peak value of an average-reading meter with an rms value scale. The noise voltage waveform does not inlcude any pulse noise.

Specified Transformer Supply (MG-250 or Equivalent)



Equivalent Circuit





Sample Application Circuit (200W min AF Power Amplifier)

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