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SANYO**STK4048II**

AF Power Amplifier (Split Power Supply)

(150W min, THD = 0.4%)

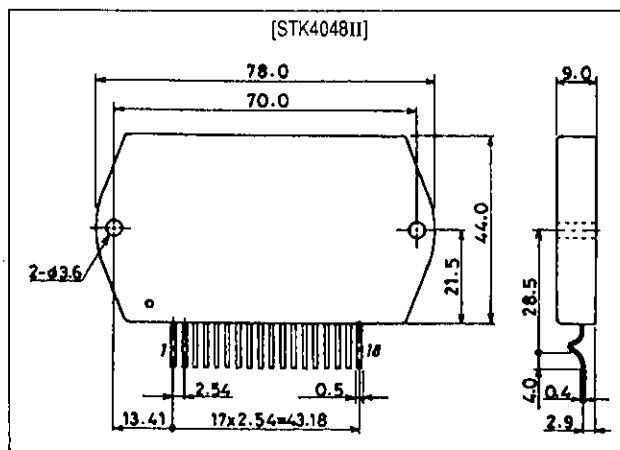
Features

- 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 thin-type 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 $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	$V_{CC \text{ max}}$		± 87	V
Thermal resistance	θ_{j-c}		1.2	$^\circ\text{C/W}$
Junction temperature	T_j		150	$^\circ\text{C}$
Operating substrate temperature	T_c		125	$^\circ\text{C}$
Storage temperature	T_{stg}		-30 to +125	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	Ratings	Unit
Recommended supply voltage	V_{CC}		± 59	V
Load resistance	R_L		8	Ω

STK4048II

Operating Characteristics at $T_a = 25^\circ\text{C}$, $V_{CC} = \pm 59\text{V}$, $R_L = 8\Omega$ (noninductive load), $R_g = 600\Omega$, $V_G = 40\text{dB}$

Parameter	Symbol	Conditions	min	typ	max	Unit
Quiescent current	I_{CCO}	$V_{CC} = \pm 72\text{V}$	15	—	120	mA
Output power	P_O	THD = 0.4%, $f = 20\text{Hz}$ to 20kHz	150	—	—	W
Total harmonic distortion	THD	$P_O = 1.0\text{W}$, $f = 1\text{kHz}$	—	—	0.3	%
Frequency response	f_L, f_H	$P_O = 1.0\text{W}$, $+9_{-3}\text{dB}$	—	20 to 50k	—	Hz
Input impedance	r_i	$P_O = 1.0\text{W}$, $f = 1\text{kHz}$	—	55	—	$k\Omega$
Output noise voltage	V_{NO}	$V_{CC} = \pm 72\text{V}$, $R_g = 10k\Omega$	—	—	1.2	mVrms
Neutral voltage	V_N	$V_{CC} = \pm 72\text{V}$	-70	0	+70	mV

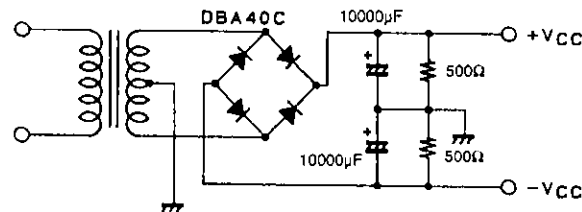
Notes.

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

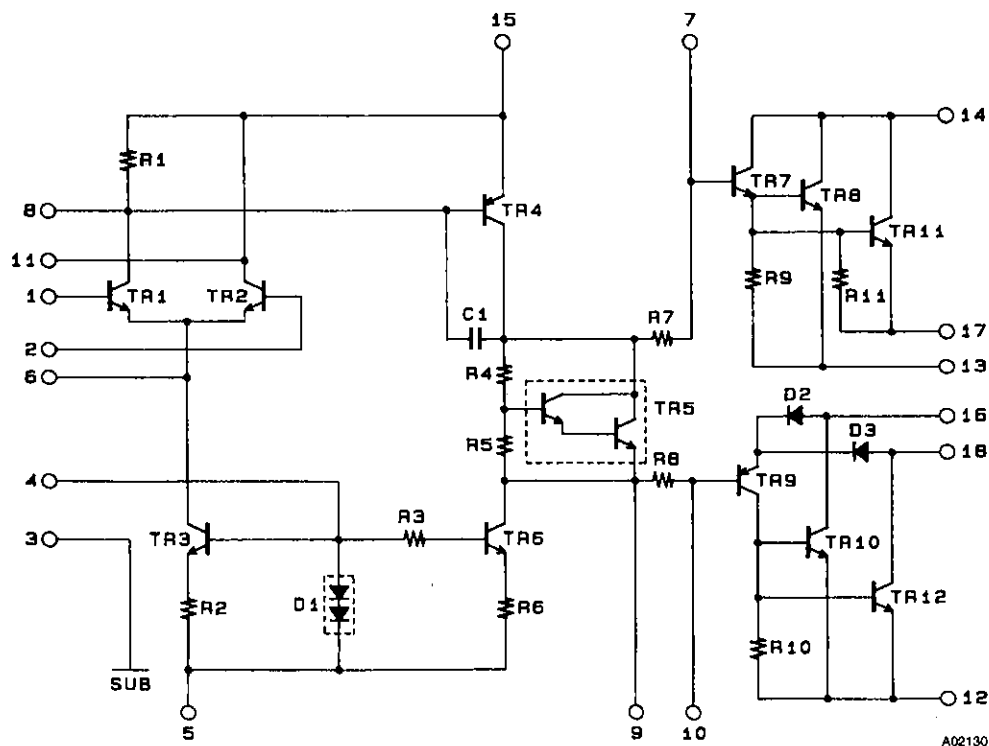
Output noise voltage is measured using the transformer supply specified below.

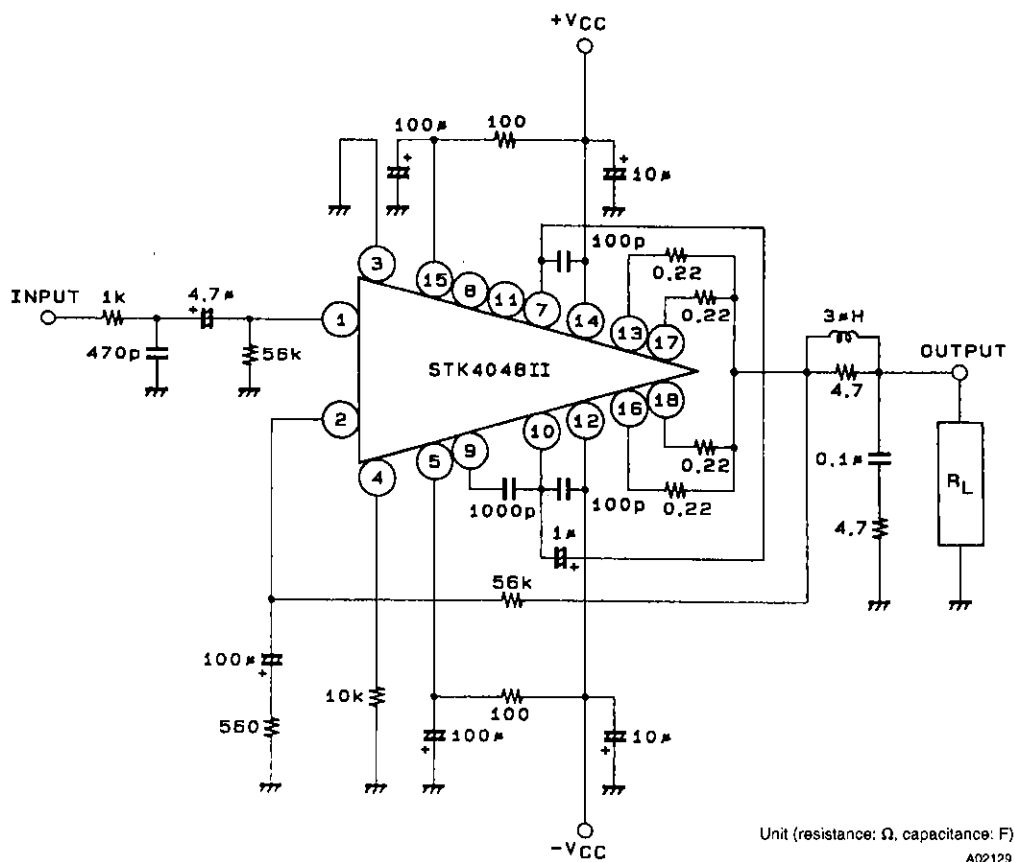
The output noise voltage is the peak value of an average-reading meter with an rms value scale. The noise voltage waveform does not include any pulse noise.

Specified Transformer Supply (MG-250 or Equivalent)



Equivalent Circuit





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