

STK4048II

AF Power Amplifier (Split Power Supply) (150W min, THD = 0.4%)

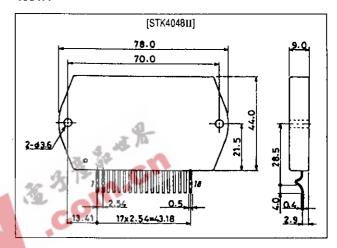
Features

- · 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 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°C

Parameter	Symbol	Conditions	Ratings	Unit	
Maximum supply voltage	V _{CC} max		±87	V.	
Thermal resistance	θj-c	101	1.2	°C/W	
Junction temperature	Tj	<u> </u>	150	∘c	
Operating substrate temperature	Tc	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	125	°C	
Storage temperature	Tstg		-30 to +125	•€	

Recommended Operating Conditions at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Recommended supply voltage	v _{cc}		±59	٧
Load resistance	R _L		8	Ω

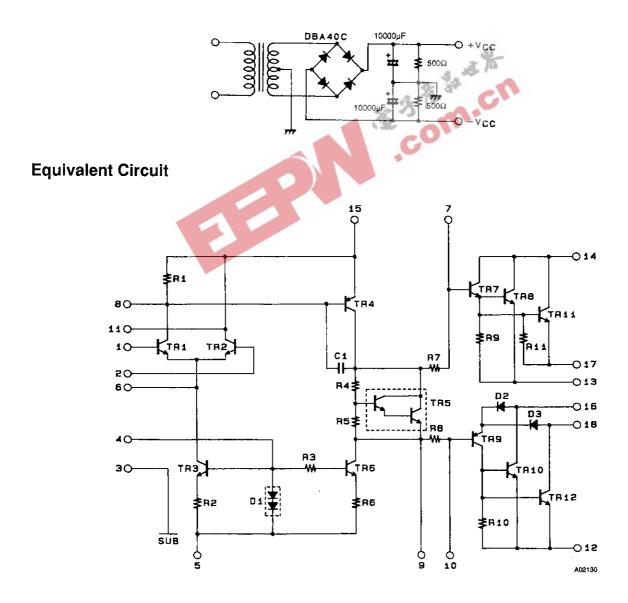
Operating Characteristics at Ta = 25 °C, V_{CC} = $\pm 59 V$, R_L = 8Ω (noninductive load), Rg = 600Ω , VG = 40 dB

Parameter	Symbol	Conditions	min	typ	max	Unit
Quiescent current	lcco	V _{CC} = ±72V	15	- 1	120	mA
Output power	Po	THD = 0.4%, f = 20Hz to 20kHz	150	_	_	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	rį	P _O = 1.0W, f = 1kHz	-	55	_	kΩ
Output noise voltage	V _{NO}	$V_{CC} = \pm 72V$, $Rg = 10k\Omega$	-	-	1.2	mVrms
Neutral voltage	V _N	V _{CC} = ±72V	-70	0	+70	mV

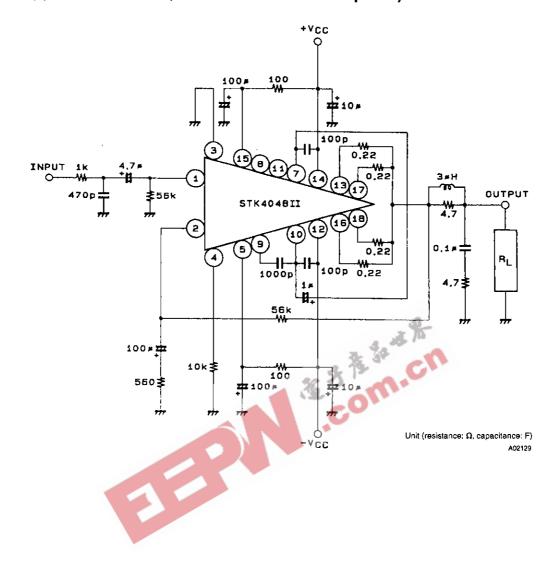
All tests are measured using a constant-voltage supply unless otherwise specified. Output noise voltage is measured using the transformer supply specified below.

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)



Sample Application Circuit (150W min AF Power Amplifier)



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