

STK4162

AF Power Amplifier (Split Power Supply)

◆ Features

- the STK4162 series and STK4101V series (high-grade type) are pin-compatible in the output range of 6 to 50W and enable easy design
- Built-in muting circuit to cut off various kinds of pop noise
- Greatly reduced heat sink due to substrate temperature 125 guaranteed
- Excellent cost performance

Specifications

◆ Maximum Ratings at Ta=25

Parameter	Symbol	Conditions	Ratings	UNIT
Maximum supply voltage	V_{CC} max		± 45	V
Thermal resistance	j-c		2.1	/W
Junction temperature	T_j		150	
Operating substrate temperature	T_c		125	
Storage temperature	T_{stg}		-30 to +125	
Available time for load short-circuit	t_s	$V_{CC} = \pm 30V, R_L = 8 \Omega, f = 50Hz, P_O = 35W$	2	s

◆ Recommended operating conditions at Ta=25

Parameter	Symbol	Conditions	Ratings	UNIT
Recommended supply voltage	V_{CC}		± 30	V
Load resistance	R_L		8	

◆ Operating characteristics at Ta=25, $V_{CC} = \pm 30V, R_L = 8 \Omega, R_g = 600 \Omega, V_G = 40dB$, R_L : non-inductive load

Parameter	Symbol	Conditions	min	typ	max	unit
Quiescent current	I_{CCO}	$V_{CC} = \pm 36V$	20	40	100	mA
Output power	P_O (1)	THD=0.4% $f=20Hz$ to 20kHz	30			W
	P_O (2)	$V_{CC} = \pm 27V, THD=1.0%$ $R_L=4 \Omega, f=1kHz$	35			W
Total harmonic distortion	THD	$P_O=1.0W, f=1kHz$			0.3	%
Frequency response	f_L, f_H	$P_O=1.0W, \pm 0$ dB -3		20 to 50k		Hz
Input impedance	r_j	$P_O=1.0W, f=1kHz$		55		k
Output noise voltage	V_{NO}	$V_{CC} = \pm 36V, R_g=10 k$			1.2	mVrms
Neutral voltage	V_N	$V_{CC} = \pm 36V$	-70	0	+70	mV
Muting voltage	V_M		-2	-5	-10	V

Package Dimensions

unit:mm

[STK4162II]

