

No.1296

STK4131 II

ohm

Thick Film Hybrid Integrated Circuit

2-CHANNEL 20W MIN AF POWER AMP.

Features

- 1. Smaller package as compared with the STK450 series.
- 2. Built-in muting circuit to cut off various kinds of shock noise.
- 3. Greatly reduced heat sink due to case temperature 125°C guaranteed.
- 4. Excellent cost performance.

Recommended Load Resistance

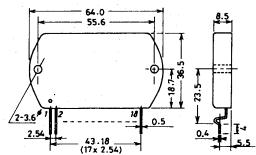
Muting Voltage

Maximum Ratings at Ta=25°C				unit
Maximum Supply Voltage	V _{CC} max		±34.5	V
Thermal Resistance	θj−c		2.6	OC/W
Junction Temperature	Тj		150	°C
Operating Case Temperature	Tc		125	ОС
Storage Temperature	Tstg	-30	to +125	оС
Available Time for Load Shorted	ts	V _{CC} =±23V, RL=80hm, f=50Hz, Po=20W	2	sec
Operating Conditions at T _a =25 ^o C Recommended Supply Voltage	Vac		± 23	unit V

Operating Characteristics at	T _a =25	°C, V _{CC} =±23V, R _L =80hm	Rg=600	Oohm,	VG=40	dB,a	t	
	specified test circuit(based on sample application							
	circu:	it).		min	typ	min	unit	
Quiescent Current	Icco	V _{CC} =±28V		20	40	100	mA	
		THD=0.4%,f=20Hz to	20kHz	20			W	
	Po(2)	$V_{CC} = \pm 20V$, THD=1.0%,		20			W	
		$R_{I} = 40 \text{hm}, f = 1 \text{kHz}$						
Total Harmonic Distortion	THD	Po=1.0W,f=1kHz				0.3	W	
Frequency Characteristic	fL,fH	Po=1.0W,-3dB		2	0to50	k .	Hz	
Input Resistance	ri	Po=1.0W,f=1kHz			55		kohm	
Output Noise Voltage	V _{NO}	$V_{CC} = \pm 28V$, Rg = 10kohm				1.2	mVrms	
Middle Point Voltage	v_N^{NO}	V _{CC} =±28V	445 T T	-70	0	70	mV	
34 4 4 77 37	14							

Case Outline 4040 (unit:mm)

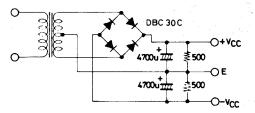
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These specifications are subject to change without notice.

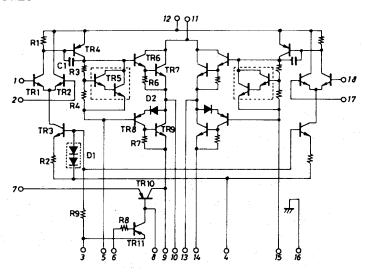
(Note)

- 1) For power supply at the time of test, use a constant-voltage power supply unless otherwise specified.
- 2) For measurement of the available time for load shorted and output noise voltage, use the specified transformer power supply shown right.
- 3) The output noise voltage is the peak value on rms scale (VTVM) of average value indicating type. For AC power supply, use an AC stabillized power supply (50Hz) to eliminate the effect of flicker noise in AC primary line.



Specified transformer power supply

Equivalent Circuit



Sample Application Circuit: 20W min 2-channel AF power amp.

