



Thick Film Hybrid Integrated Circuit
2 CHANNEL 18W MIN AF POWER AMPLIFIER

The STK430II is a single-package hybrid IC of our own original IMST structure. It is a dual-channel, high-efficiency amp. that has little voltage loss and is designed to operate from three supplies. Application areas include outdoor stereos, radio cassettes, and the like.

Applications:

- Radio Cassette
- Car stereo for diesel-engine car
- Outdoor stereo(3-supply operation)
- Color TV(with sound multiplex system)
- Electronic musical instrument

Features:

- Wide supply voltage range
- Supply voltage range $V_{CC}=8V$ to $26.4V$, operable from battery ($13.2V$), AC line ($26.4V$)
- High V_{CCmax} . enabling easy designing of transformer ($V_{CCmax.}=43V$)
- New circuit configuration permitting high power output
 - V_{CC} 13.2V: 5.5W typ. x 2 (THD=10%)
 - 26.4V: 21W typ. x 2 (THD=10%)
 - 26.4V: 15W typ. x 2 (THD=10%) (THD=1%, FTC=50Hz to 15KHz)
- Free from failure caused by load shorted because heat sink is provided
- Usable for 2-ohm load (at $V_{CC}=22V$ or less)
- Easy to use in LM-band AM sets because electromagnetic interference in radio band is small

Maximum Ratings at $T_a=25^\circ C$		unit
Maximum Supply Voltage	V_{CCmax}	43 V
Operating Case Temperature	T_C	-20 to +105 $^\circ C$
Storage Temperature	T_{stg}	-20 to +125 $^\circ C$
Available Time for Load Shorted	t_s $V_{CC}=26.4V, R_L=4ohm, f=1KHz$	2 sec
	$P_O=18W, V_G=40dB$	

Recommended Operating Conditions at $T_a=25^\circ C$		unit
Recommended Supply Voltage	V_{CC}	26.4 V
Load Resistance	R_L	4 ohm

Continued on next page.

Case Outline 4031
(unit:mm)



