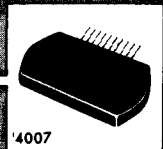


# STK-084,086, 085-105

thick film hybrid IC

50 to 70W min AF POWER



## Features

- © IMST, 1 Channel by 2 Power Supply.
- AF Output Power STK-084: 50 Wmin.  
STK-085-105: 60 Wmin.  
STK-086: 70 Wmin.
- Capable of setting protector for load shorting and tone controller.

## MAXIMUM RATINGS / Ta=25°C

|                            |                                         | STK-084     | STK-085<br>-105 | STK-086     | unit |
|----------------------------|-----------------------------------------|-------------|-----------------|-------------|------|
| Maximum Supply Voltage     | V <sub>CC</sub> max                     | ±50         | ±55             | ±55         | V    |
| Collector Current          | I <sub>C</sub> max                      | 7           | —               | 7           | A    |
| Thermal Coefficient        | θ <sub>j-c</sub> (T <sub>C</sub> =25°C) | 1.7         | —               | 1.4         | °C/W |
| Operating Case Temperature | T <sub>C</sub>                          | 85          | 105             | 85          | °C   |
| Storage Temperature        | T <sub>sgt</sub>                        | -30 to +100 | -30 to +105     | -30 to +100 | °C   |

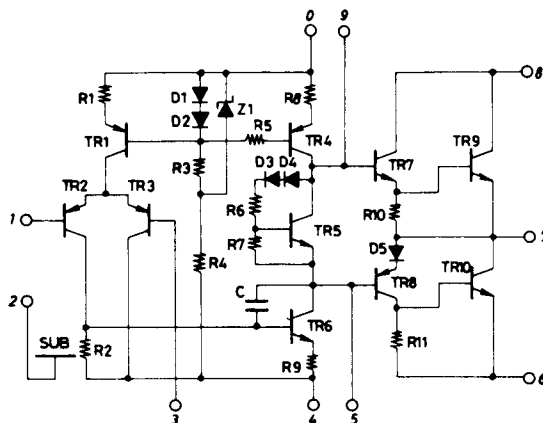
## RECOMMENDED OPERATION CONDITION / Ta=25°C

|                            |                 | STK-084 | STK-085<br>-105 | STK-086 | unit |
|----------------------------|-----------------|---------|-----------------|---------|------|
| Recommended Supply Voltage | V <sub>CC</sub> | ±35     | ±38             | ±42     | V    |
| Load Resistance            | R <sub>L</sub>  | →       | →               | 8       | ohm  |

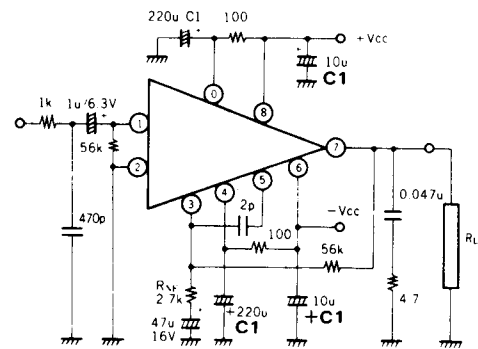
## OPERATION CHARACTERISTICS / Ta=25°C, recommended V<sub>CC</sub> supplied, R<sub>L</sub>=8 ohm, R<sub>g</sub>=600 ohm, VG=26.4dB

|                    |                                      | STK-084 | STK-085<br>-105 | STK-086    | unit  |
|--------------------|--------------------------------------|---------|-----------------|------------|-------|
| Quiescent Current  | I <sub>CCO</sub>                     | →       | →               | 100        | mAmax |
| Output Power       | P <sub>o</sub>                       | 50      | 60              | 70         | Wmin  |
|                    | THD=0.2%,<br>f=20 to 20 kHz          |         |                 |            |       |
| Distortion         | THD                                  | →       | →               | 0.2        | %max  |
|                    | f=20 to 20 kHz<br>rated output power |         |                 |            |       |
| Frequency Response | f                                    | →       | →               | 10 to 100k | Hz    |
|                    | P <sub>o</sub> =1W, +0<br>-1 dB      |         |                 |            |       |
| Input Resistance   | r <sub>i</sub>                       | →       | →               | 52k        | ohm   |
|                    | P <sub>o</sub> =1W, f=1 kHz          |         |                 |            |       |

## EQUIVALENT CIRCUIT



## APPLICATION: AF Power Amp.



|                        | C1  |
|------------------------|-----|
| STK-084                | 50V |
| STK-085-105<br>STK-086 | 63V |

See the operation characteristics on this specification.