

Integrated circuits for AF applications

TBA 800

Audio power amplifier, especially for TV-receivers

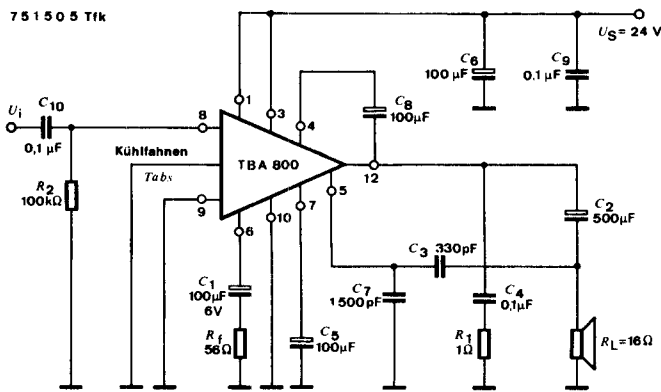
Supply voltage	Pin 1, Pin 3	U_S	5...30	V
Output power				
$U_S = 24 \text{ V}, R_L = 16 \Omega,$ $f = 1 \text{ kHz}, k = 10\%$		P_q	(> 4.4) 5	W
Input voltage				
$U_S = 24 \text{ V}, P_q = 5 \text{ W},$ $f = 1 \text{ kHz}, R_L = 16 \Omega,$ $R_f = 56 \Omega$	Pin 8	U_i	80	mV
Voltage amplification with closed loop				
$U_S = 24 \text{ V}, R_L = 16 \Omega, f = 1 \text{ kHz}, R_f = 56 \Omega$		A_{uof}	42 (< 45)	dB
Input noise voltage				
$U_S = 24 \text{ V}, B = 40...20\,000 \text{ Hz}$ $R_f = 56 \Omega$	Pin 8	U_{ni}	5	μV

Features:

- High output current, up to 1.5 A
- Wide range of supply voltage
- High output power without heat sink 2.5 W with heat sink 5.0 W
- Very high efficiency 70%

Case:

QIP special
Dimensions see page 60
Number 1



TBA 810 S · TBA 810 AS

Audio power amplifier

Supply voltage	Pin 1	U_S	4...20	V
Output power				
$R_L = 4 \Omega, f = 1 \text{ kHz}, k = 10\%$		P_q	7	W
$U_S = 16 \text{ V}$		P_q	1	W
$U_S = 6 \text{ V}$		P_q		
Input voltage	Pin 8			
$U_S = 14.4 \text{ V}, P_q = 6 \text{ W},$ $f = 1 \text{ kHz}, R_L = 4 \Omega,$	$R_f = 56 \Omega$	U_i	80	mV
	$R_f = 22 \Omega$	U_i	35	mV
Voltage amplification with closed loop				
$U_S = 14.4 \text{ V}, R_L = 4 \Omega, f = 1 \text{ kHz}, R_f = 56 \Omega$		A_{uof}	37 (< 40)	dB
Input noise voltage				
$U_S = 14.4 \text{ V}, B = 20...20\,000 \text{ Hz}$	Pin 8	U_{ni}	2	μV

Features:

- High output current, up to 2 A
- High output power 7 W
- Low harmonic distortion

Case:

TBA 810 S: QIP special
Dimensions see page 60
Number 1

TBA 810 AS: QIP special
Dimensions see page 60
Number 2

