

# Integrated circuits for AF applications

## TBA 810 T · TBA 810 AT

### Audio power amplifier

Supply voltage range	Pin 1	$U_S$	4 ... 25	V
Output power $R_L = 4 \Omega$ , $f = 1 \text{ kHz}$ , $k = 10 \%$ $U_S = 20 \text{ V}$ $U_S = 14,4 \text{ V}$ $U_S = 6 \text{ V}$		$P_q$ $P_q$ $P_p$	10 6 1	W W W
Band width (-3) $U_S = 14,4 \text{ V}$ , $R_L = 4 \Omega$ , $C_3 = 420 \text{ pF}$		$B$	40 ... 20000	Hz
Distortion $U_S = 14,4 \text{ V}$ , $R_L = 4 \Omega$ , $P_q = 0,05 \dots 3 \text{ W}$		$k$	0,3	%

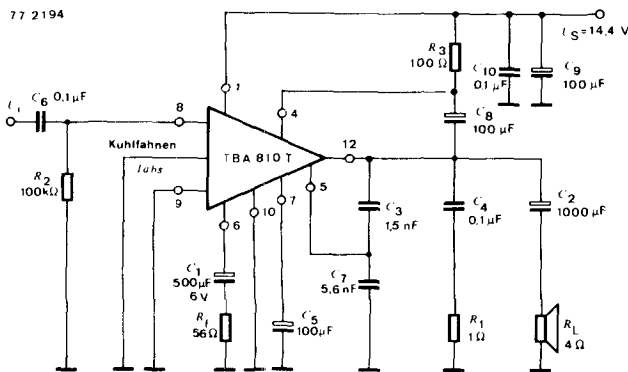
### Features:

- Thermal shut-down
- High output current, up to 3 A
- Wide range of supply voltage, 4 to 25 V
- High output power 7 W
- Low cross-over distortion
- Low harmonic distortion
- Very high efficiency 70%

### Case:

**TBA 810 T:** QIP special  
Dimensions see page 60  
Number 1

**TBA 810 AT:** QIP special  
Dimensions see page 60  
Number 2



## TCA 830 · TCA 830 A

### Audio power amplifier

Supply voltage range	Pin 1	$U_S$	3,5...20	V
Input voltage $U_S = 12 \text{ V}$ , $P_q = 50 \text{ mW}$ $f = 1 \text{ kHz}$ , $R_L = 4 \Omega$ , $R_f = 56 \Omega$	Pin 8	$U_i$	6,5	mV
Voltage amplification $R_L = 4 \Omega$ , $f = 1 \text{ kHz}$ , $R_f = 56 \Omega$ with closed loop		$A_{uof}$	37 (< 40)	dB
Output noise voltage $U_S = 12 \text{ V}$ , $B = 30 \dots 15 \text{ 000 Hz}$ , $R_G = 10 \text{ k}\Omega$ , $U_i = 0$		$U_{na}$	500	$\mu\text{V}$

### Features:

- High output current, up to 1.5 A
- High output power, up to 4 W
- Low harmonic distortion

### Case:

**TCA 830:** QIP special  
Dimensions see page 60  
Number 1

**TCA 830 A:** QIP special  
Dimensions see page 60  
Number 2

