

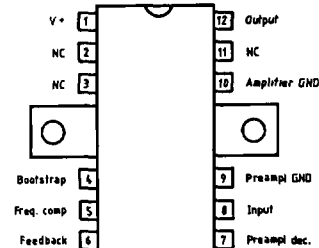
ANALOGUE INTEGRATED CIRCUITS

AUDIO



AUDIO POWER AMPLIFIERS , 1.3W ... 2.5W

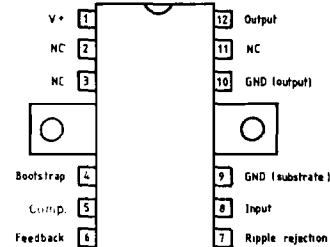
TBA 790T	Features :	
	Operating temperature :	-25...+70°C
β 790AT	Supply voltage :	6 ... 14 V
	Input voltage :	-0.5 ... 9 V
β 790T	Voltage gain :	43 ... 49 dB
	Repetitive peak output current :	max. 1.5 A
	Output power (THD=10%) :	TBA 790T min. 2.5 W
		β 790AT min. 1.7 W
		β 790T min. 1.3 W



PACKAGE CB-155 / TOP VIEW

7W AUDIO POWER AMPLIFIERS

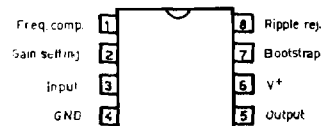
TBA 810AS	Features :	TBA 810AS	TBA 810S
	Package (same pin config.) :	CB-155	CB-109
TBA 810S	Thermal data : $R_{thJ-TAB}$	max. 10 °C/W	12 °C/W
	R_{thJ-A}	max. 80 °C/W	70 °C/W
	Operating temperature :	-25...+70°C	
	Supply voltage :	4 ... 20 V	
	Voltage gain (closed loop) :	34 ... 40 dB	
	Repetitive peak output current :	max. 2.5 A	
	Output power (@ 16V , 4 ohms) :	typ. 7 W	



TBA 810AS / PACKAGE CB-155

MINIDIP AUDIO AMPLIFIER

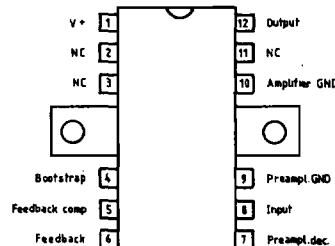
TBA 820N	Features:	
	Operating temperature :	-25...+70°C
	Supply voltage :	3 ... 16 V
	Frequency response (-3dB , $R_L=8$ ohms) :	25/20000 Hz
	Voltage gain (open loop , $R_L=8$ ohms) :	typ. 75 dB
	Repetitive peak output current :	max. 1.5 A
	Output power (THD=10%) @ 12V , 8 ohms :	typ. 2 W
	@ 9V , 4 ohms :	typ. 1.6 W
	@ 9V , 8 ohms :	typ. 1.2 W



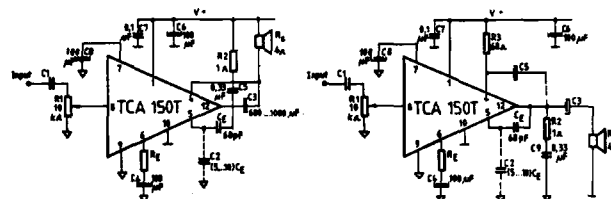
PACKAGE MP-48 / TOP VIEW

AUDIO POWER AMPLIFIERS , 1W ... 5W

TCA 150T	Features :	
	Operating temperature :	-25...+70°C
βT 150N	Supply voltage :	6 ... 18 V
	Input voltage :	-0.5 / 15 V
βT 151N	Voltage gain :	43 ... 49 dB
	Repetitive peak output current :	max. 2.3 A
	Output power (THD=10%) TCA 150T :	min. 5 W
	βT 150N , βT 151N :	min. 1 W
	Thermal res. R_{thJ-A} TCA 150T :	max. 80°C/W
	βT 150N , βT 151N :	max. 250°C/W



TCA 150T
PACKAGE CB-155 / TOP VIEW

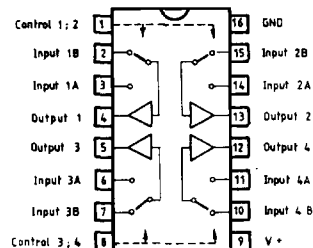


TYPICAL APPLICATIONS

4-CHANNELS / 2-INPUTS SIGNAL SOURCES SWITCHES

TDA 1028	Features :	
	Operating temperature :	-25...+70°C
	Supply voltage :	max. 23 V
	Supply current (V=20V) :	typ. 2.5 mA
	Input voltage range :	3 ... 19 V
	Input bias current :	typ. 250 nA
	Voltage gain of the amplifier :	typ. 1
	Output current :	min. 5 mA
	Frequency limit of the output voltage :	typ. 1.3MHz

βT 150N , βT 151N
PACKAGE MP-48 / TOP VIEW

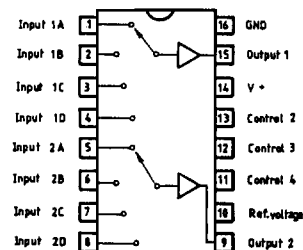


PACKAGE MP-117 / TOP VIEW

2-CHANNELS / 4-INPUTS SIGNAL SOURCES SWITCHES

TDA 1029

Features :
 Operating temperature : -25...+70°C
 Supply voltage : max. 23 V
 Supply current (V=20V) : typ. 4 mA
 Input voltage range : 3 ... 19 V
 Input bias current : typ. 250 nA
 Voltage gain of the amplifier : typ. 1 -
 Output current : min. 5 mA
 Frequency limit of the output voltage : typ. 1.3MHz

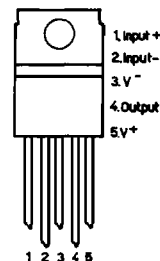


PACKAGE MP-117 / TOP VIEW

*** 10W CAR AUDIO POWER AMPLIFIER**

TDA 2003

Features :
 Operating temperature : -25...+70°C
 Supply voltage : 8 ... 28 V
 Quiescent drain current : max. 50 mA
 Output peak current (repetitive) : max. 3.5 A
 Output peak current non-repetitive : max. 4.5 A
 Output power V=14.4V, d=10%, R_L=4 ohms typ. 6 W
 R_L=3.2ohms typ. 7.5 W
 R_L=2 ohms typ. 10 W



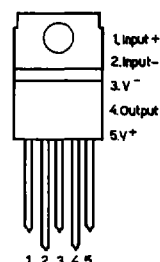
PACKAGE PENTAWATT

AUDIO POWER AMPLIFIERS

TDA 2006

	TDA 2006	TDA 2030
Operating temperature :	-25...+70°C	-25...+70°C
Supply voltage, V+ :	max. ±15 V	max. ±18 V
Quiescent drain current :	max. 80 mA	max. 40 mA
Input voltage :	max. V+	max. ±18 V
Differential input voltage :	max. ±12 V	max. ±15 V
Output power (*) R _L =4 ohms : typ.	12 W	14 W
R _L =4 ohms : min.	12 W	12 W
R _L =8 ohms : min.	6 W	8 W

(*) Test conditions: TDA 2006: V=+/-12V, d=10%; TDA 2030: V=+/-14V, d=0.5%

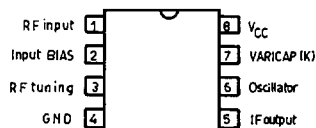


PACKAGE PENTAWATT

*** LOW VOLTAGE FM FRONT-END**

TDA 7211A

Features:
 Operating temperature : 0...+70°C
 Supply voltage : 1.3 ... 6 V
 Local oscillator voltage : max. 330 mV_{rms}
 Supply current V_{CC}=3 V : max 4,5 mA
 Conversion gain, f=98MHz : typ. 34 dB

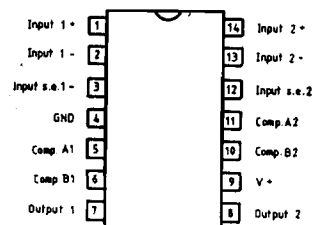


PACKAGE MP-48 / TOP VIEW

LOW NOISE DUAL PREAMPLIFIERS

BM 381

Features :
 Operating temperature : -25...+70°C
 Supply voltage : 9 ... 40 V
 Supply current (V=9...40V) : typ. 10 mA
 Voltage gain (differential input) : typ. 160000
 Voltage gain (single ended) : typ. 320000
 Unity gain bandwidth : typ. 15 MHz
 Total equiv. RMS noise input : BM 381A max. 0.7 uV
 BM 381 max. 1.0 uV

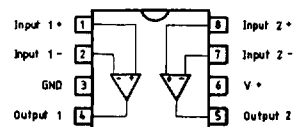


PACKAGE TO-116 / TOP VIEW

LOW NOISE DUAL PREAMPLIFIERS

BM 387AN

Features :
 Operating temperature : -25...+70°C
 Supply voltage : BM 387AN 9 ... 40 V
 BM 387N 9 ... 30 V
 Supply current : typ. 10 mA
 Voltage gain (open loop) : typ. 160000
 Unity gain bandwidth : typ. 15 MHz
 Total equiv. RMS noise input : BM 387AN max. 0.9 uV
 BM 381N max. 1.2 uV



PACKAGE MP-48 / TOP VIEW