



TDA2822M

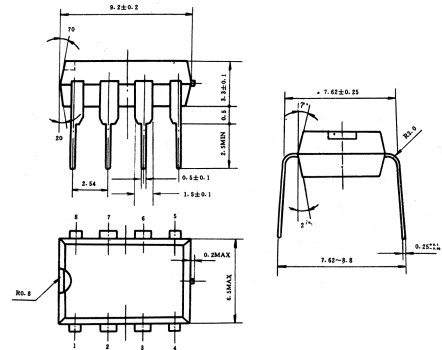
DUAL LOW-VOLTAGE POWER AMPLIFIER

DESCRIPTION

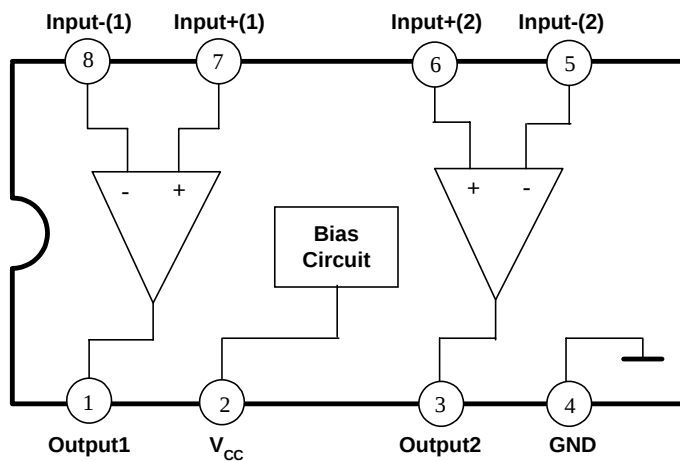
The TDA2822M is a monolithic integrated circuit in 8 lead Minidip package. It is intended for use as dual audio power amplifier in portable cassette players and radios.

FEATURE

LOW CROSSOVER DISTORSION
LOW QUIESCENT CURRENT
SUPPLY VOLTAGE DOWN TO 1.8V
BRIDGE OR STEREO CONFIGURATION



PIN CONNECTION



ABSOLUTE MAXIMUM RATINGS (Tamb=25°C, unless otherwise specified)

PARAMETER		SYMBOL	VALUE		UNIT
			MIN.	MAX.	
Supply Voltage		Vcc	-	15	V
Peak Output Current		Io	-	1	A
Power Dissipation	TA =50°C	PD	-	1	W
	Tcase=50°C		-	1.4	
Operating Temperature		Tamb	-20	70	°C
Storage and Junction Temperature		Tstag	-40	150	°C



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ELECTRICAL CHARACTERISTICS (Vcc=6V,Tamb=25°C) (STEREO)

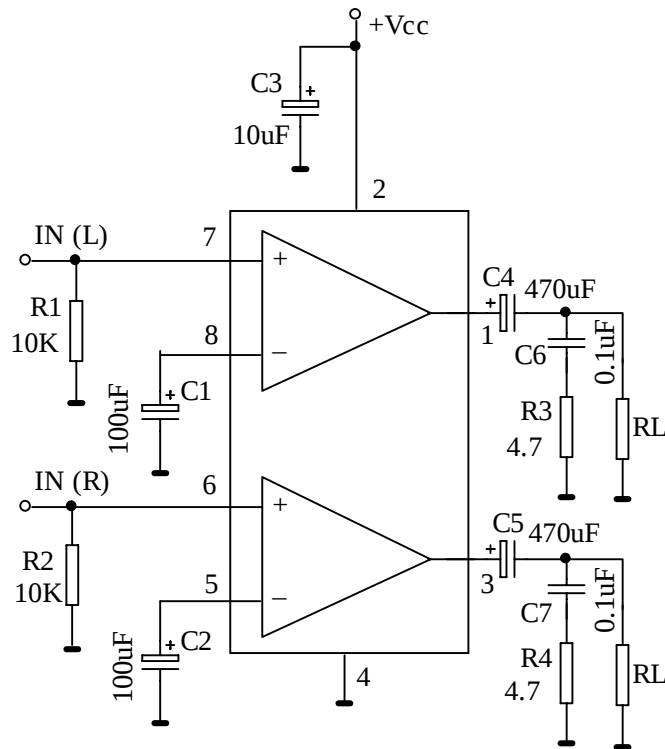
PARAMETER	TEST CONDITIONS		SYMBOL	MIN	TYP	MAX	UNIT
Supply Voltage			V _{CC}	1.8	-	15	V
Quiescent Output voltage	V _{CC} =3V		V _O	-	2.7	-	V
				-	1.2	-	V
Quiescent Drain Current			I _{CC}	-	6	9	mA
Input Bias Current			I _{BA}	-	100	-	nA
Output Power	THD=10%, f=1KHz,V _{CC} =3V	RL=4 Ω	P _O	-	110	-	mW
		RL=32 Ω		-	20	-	
	THD=10% F=1KHz	V _{CC} =9V RL=8 Ω		-	1	-	W
		V _{CC} =6V RL=4 Ω		0.4	0.65	-	
		V _{CC} =4.5V RL=4 Ω		-	0.32	-	
Distortion	P _O =0.5W,f=1KHz,V _{CC} =9V,RL=8 Ω		THD	-	0.3	-	%
Closed Loop Voltage Gain	f=1KHz		A _{VF}	-	40	-	dB
Channel Balance			Δ A _v	-	-	± 1	dB
Input Resistance	f=1KHz		R _i	100	-	-	K Ω
Total Input Noise	R _s =10K Ω		V _{NI}	-	2	-	μ V
	R _s =10K Ω , B=22Hz~22KHz		-	-	3	-	
Supply Voltage Rejection	f=100Hz C1=C2=100 μ F		Srip	24	30	-	dB
Channel Separation	f=1KHz		CSR	-	50	-	dB



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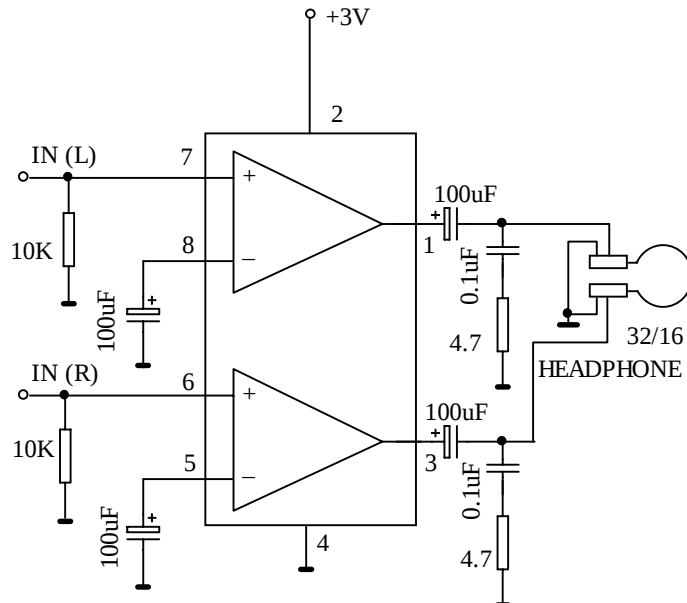
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Test Circuit: (Stereo)

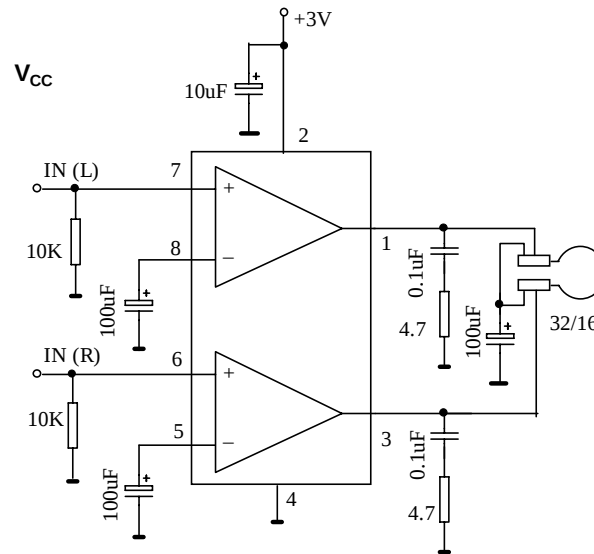


TYPICAL APPLICATION:

1. Application in Portable Players



2. Application in Radio Receivers



FEATURE DIAGRAM

Fig. 1 - Quiescent current vs. supply voltage

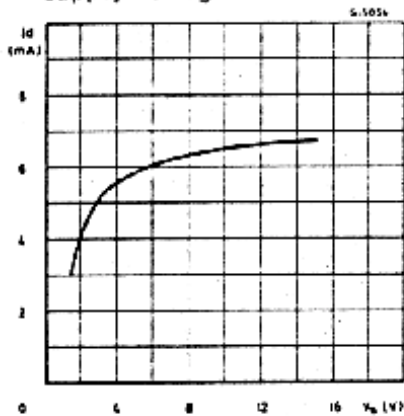


Fig. 2 - Supply voltage rejection vs. frequency (stereo)

