

UTC TDA2822 LINEAR INTEGRATED CIRCUIT

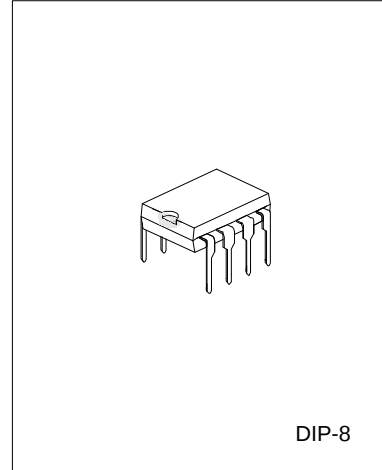
DUAL LOW VOLTAGE POWER AMPLIFIER

DESCRIPTION

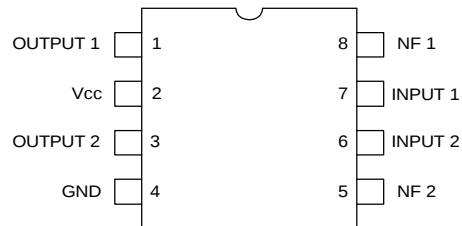
The UTC TDA2822 is a monolithic integrated audio amplifier in a 8-Pin plastic dual in line package. It is designed for portable cassette players and radios.

FEATURES

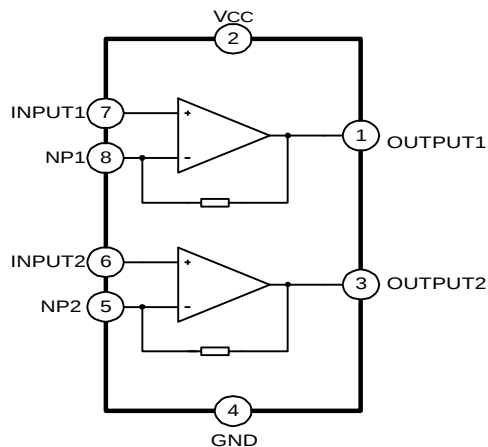
- *Wide operating supply voltage: $V_{CC}=1.8V-12V$.
- *Low crossover distortion.
- *Low quiescent circuit current.
- *bridge/stereo configuration.



PIN CONFIGURATIONS



BLOCK DIAGRAM



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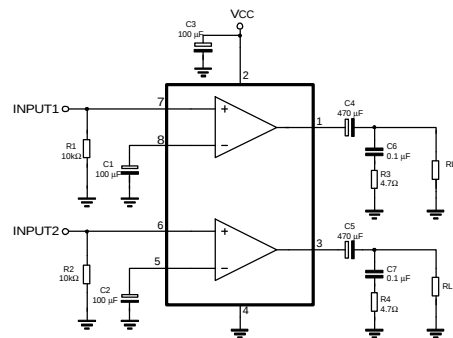
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

PARAMETER	SYMBOL	VALUE	UNIT
Supply Voltage	Vcc	15	V
Output Peak Current	Io(peak)	1	A
Power Dissipation	Pd	at Tamb=50°C 1.0 at Tcase=50°C 1.4	W
Operating Temperature	Topr	-20 ~ +70	°C
Storage Temperature	Tstg	-40 ~ +150	°C

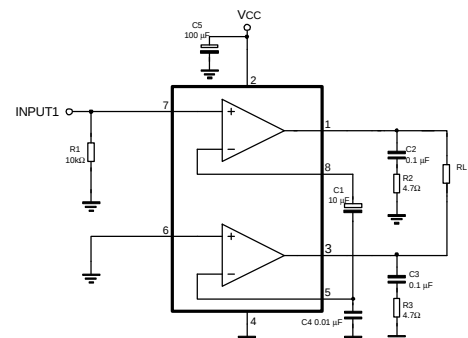
ELECTRICAL CHARACTERISTICS(Ta=25°C, VCC=6V, f=1kHz, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Operating Supply Voltage	Vcc		1.8		9	V
Quiescent Circuit Current	Icc	Vi=0		9		mA
Closed Loop Voltage Gain	Av	Stereo		40		dB
Closed Loop Voltage Gain	Av	Bridge		40		dB
Channel Balance	CB	Stereo	-1	0	1	dB
Output Power	Po	Stereo,Vcc=6V,RL=4Ω, THD=10%	0.4	0.65		W
Output Power	Po	Stereo,Vcc=3V,RL=4Ω, THD=10%		0.11		W
Output Power	Po	Bridge,Vcc=6V,RL=4Ω, THD=10%	0.9	1.35		W
Output Power	Po	Bridge,Vcc=6V,RL=4Ω, THD=10%		0.35		W
Total Harmonic Distortion	THD	Stereo,RL=8Ω, Po=0.2W		0.5		%
Total Harmonic Distortion	THD	Bridge,RL=8Ω, Po=0.5W		0.5		%
Ripple Rejection	RR	Stereo,f=100Hz,C3=100μF	24	30		dB
Output Noise Voltage	VNO	Stereo,BW(-3dB)=20Hz ~20kHz		0.5	2.0	mV
Cross Talk	CT	Stereo,f=1kHz		50		dB
Input Resistance	Ri		100			kΩ

TEST CIRCUIT 1:STEREO

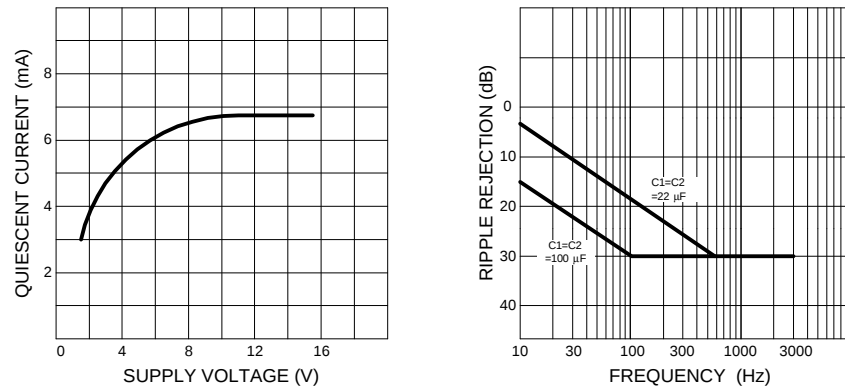


TEST CIRCUIT 2:BRIDGE



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TYPICAL PERFORMANCE CHARACTERISTICS



SCHEMATIC DIAGRAM

