



TDA2822

LINEAR INTEGRATED CIRCUIT

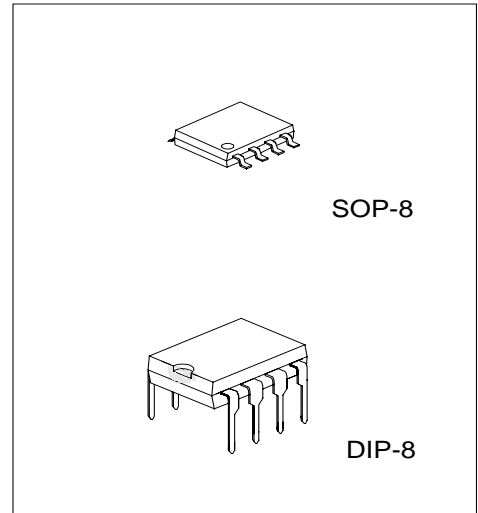
DUAL LOW VOLTAGE POWER AMPLIFIER

■ 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.

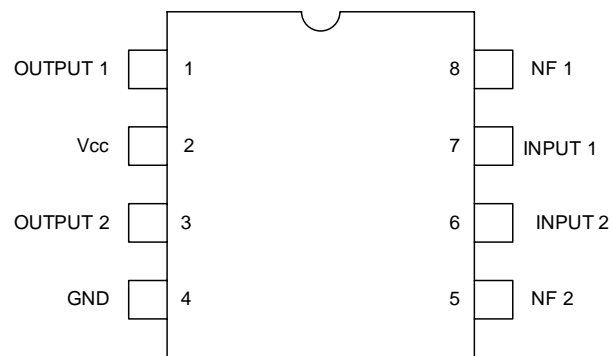


*Pb-free plating product number: TDA2822L

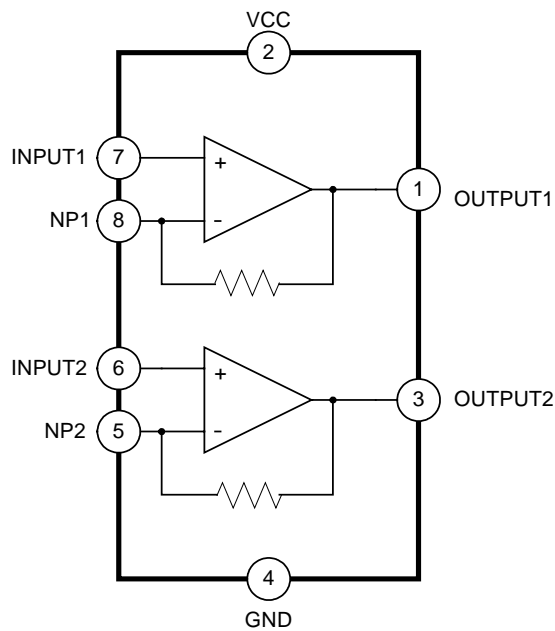
■ ORDERING INFORMATION

Order Number		Package	Packing
Normal	Lead Free Plating		
TDA2822-S08-R	TDA2822L-S08-R	SOP-8	Tape Reel
TDA2822-S08-T	TDA2822L-S08-T	SOP-8	Tube
TDA2822-D08-T	TDA2822L-D08-T	DIP-8	Tube

■ PIN CONFIGURATIONS



■ BLOCK DIAGRAM



■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V _{CC}	15	V
Output Peak Current	I _{O(peak)}	1	A
Power Dissipation	DIP-8	P _D	W
	SOP-8		
Operating Temperature	T _{OPR}	-20~+85	°C
Storage Temperature	T _{STG}	-40~+150	°C

Note:1. Absolute maximum ratings are stress ratings only and functional device operation is not implied. The device could be damaged beyond Absolute maximum ratings.

2. The device is guaranteed to meet performance specifications within 0 ~70 operating temperature range and assured by design from -20 ~ 85

■ ELECTRICAL CHARACTERISTICS (Ta=25°C, V_{CC}=6V, f=1kHz, unless otherwise specified)

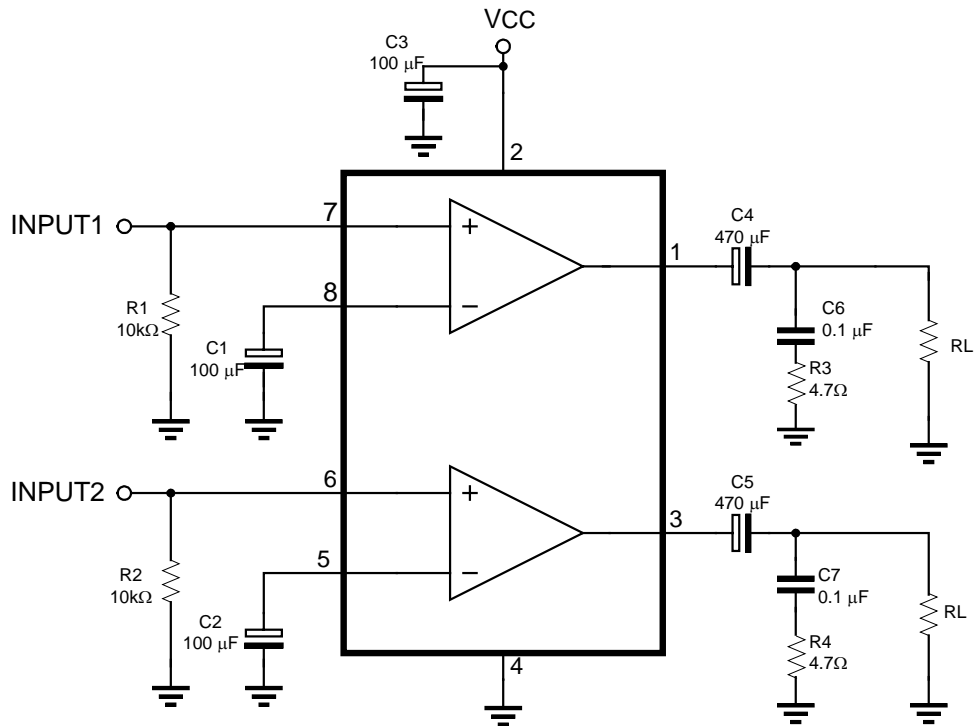
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Operating Supply Voltage	V _{CC}		1.8		12	V
Quiescent Circuit Current	I _{CC}	V _{IN} =0		9		mA
Closed Loop Voltage Gain	Stereo Bridge	G _{Vc}		40		dB
				40		
Channel Balance	CB	Stereo	-1	0	1	dB
Output Power(Stereo)	DIP-8	P _{OUT}	V _{CC} =6V, R _L =4Ω, THD=10%	0.4	0.65	W
	SOP-8			0.28	0.45	
	DIP-8	P _{OUT}	V _{CC} =3V, R _L =4Ω, THD=10%		0.11	W
	SOP-8				0.07	
Output Power (Bridge)	DIP-8	P _{OUT}	V _{CC} =6V, R _L =4Ω, THD=10%	0.9	1.35	W
	SOP-8			0.63	0.94	
	DIP-8	P _{OUT}	V _{CC} =6V, R _L =4Ω, THD=10%		0.35	W
	SOP-8				0.24	
Total Harmonic Distortion	Stereo Bridge	THD	R _L =8Ω, P _{OUT} =0.2W		0.5	%
			R _L =8Ω, P _{OUT} =0.5W		0.5	%
Ripple Rejection	RR	Stereo, f=100Hz, C3=100μF	24	30		dB
Output Noise Voltage	eN	Stereo, BW(-3dB)=20Hz ~20kHz		0.5	2.0	mV
Cross Talk	C _T	Stereo, f=1kHz		50		dB
Input Resistance	R _{IN}		100			kΩ

TDA2822

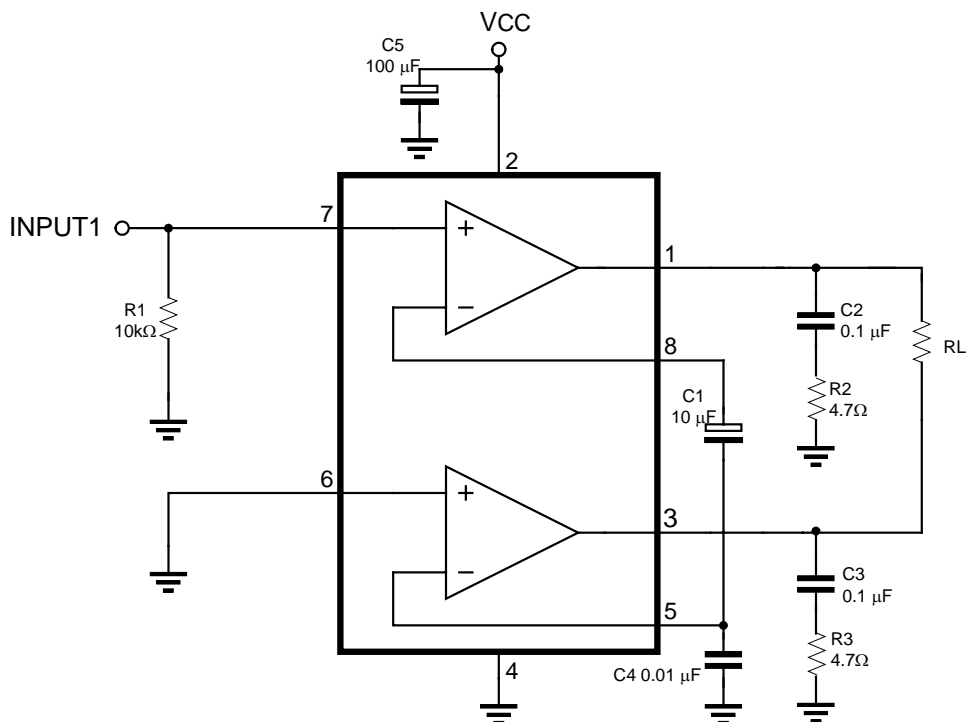
LINEAR INTEGRATED CIRCUIT

■ TEST CIRCUIT

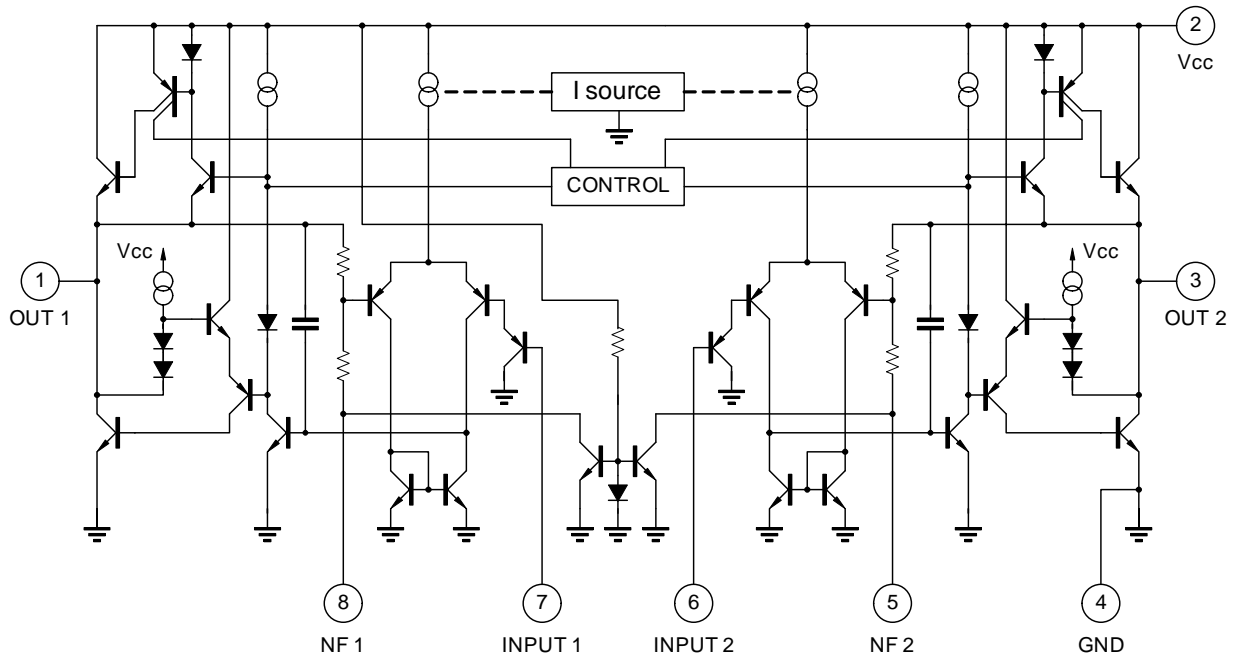
STEREO



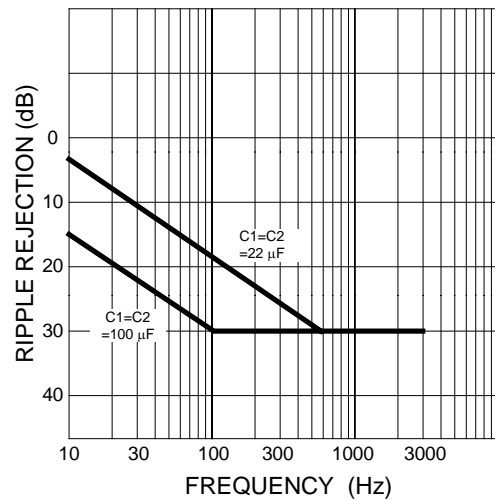
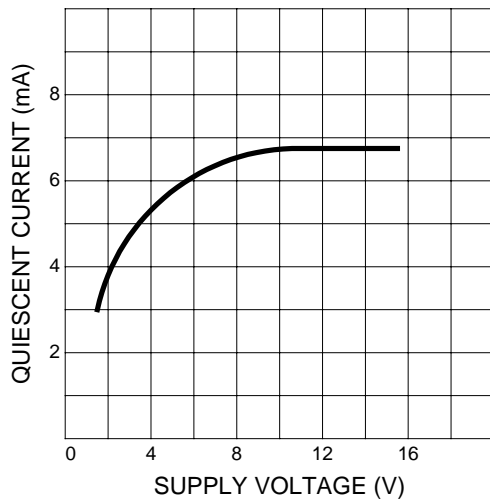
BRIDGE



■ SCHEMATIC DIAGRAM



■ TYPICAL CHARACTERISTICS



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