

LINEAR INTEGRATED CIRCUIT

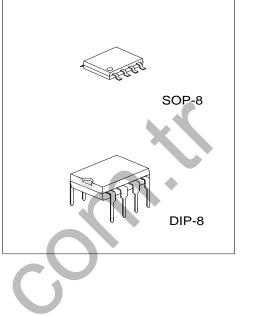
DUAL LOW VOLTAGE POWER AMPLIFIER

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.

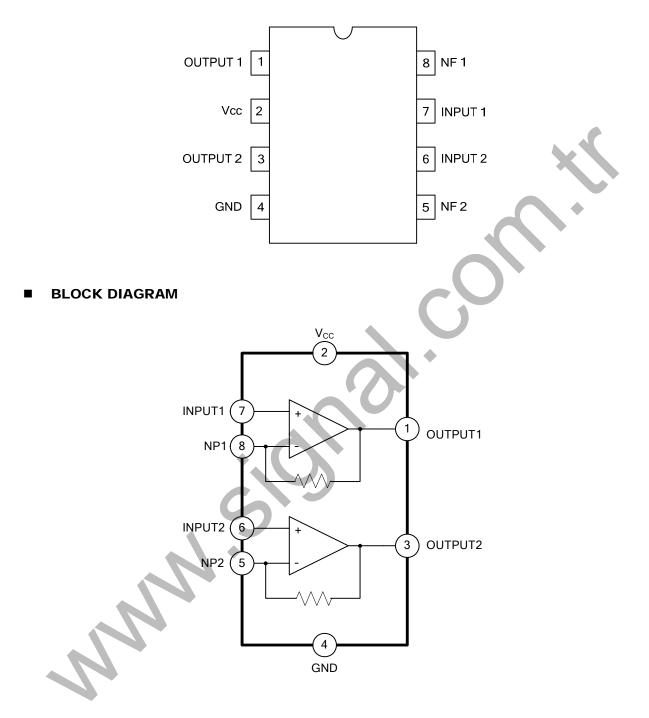


ORDERING INFORMATION

Ordering	Dookogo	Docking		
Lead Free	Halogen Free	Package	Packing	
TDA2822L-S08-R	TDA2822G-S08-R	SOP-8	Tape Reel	
TDA2822L-S08-T	TDA2822G-S08-T	SOP-8	Tube	
TDA2822L-D08-T	TDA2822G-D08-T	DIP-8	Tube	

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PIN CONFIGURATIONS



■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

PARAMETER		SYMBOL	RATINGS	
Supply Voltage		V _{CC}	15	V
Output Peak Current		I _{O(PEAK)}	еак) 1	
Power Dissipation	DIP-8	P	1.0	10/
	SOP-8	PD	0.5	W
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°C ~70°C operating temperature range and assured by design from -20°C ~ 85°C

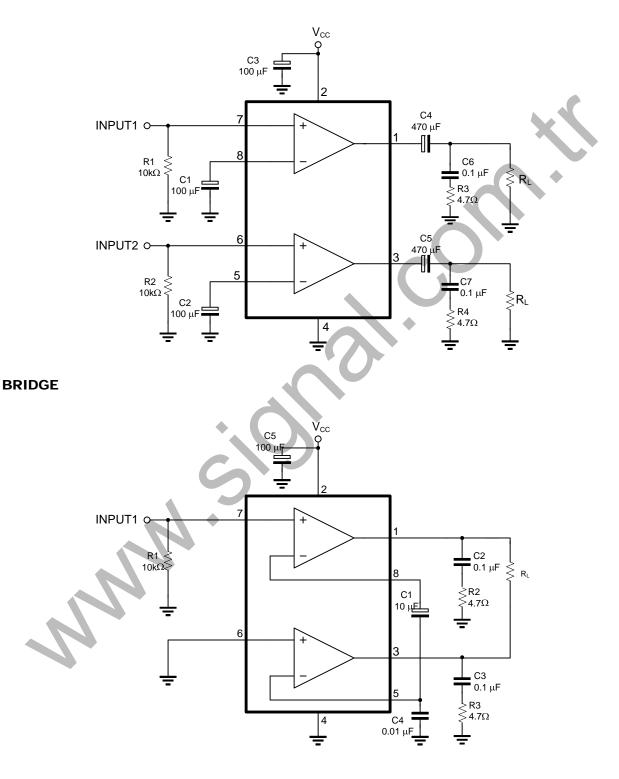
ELECTRICAL CHARACTERISTICS (T_A=25°C, V_{CC}=6V, f=1kHz, unless otherwise specified)

PARAMETER		SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Operating Supply Voltage		V _{CC}		1.8		12	V
Quiescent Circuit Current		Icc	V _{IN} =0		9		mA
Closed Loop Voltage Gain Stereo Bridge	Stereo	G _{VC}			40		dB
	Bridge				40		dB
Channel Balance		СВ	Stereo	-1	0	1	dB
Output Power(Stereo)	DIP-8		$V_{CC}=6V,R_L=4\Omega$, THD=10%	0.4	0.65		W
	SOP-8	Роит		0.28	0.45		
	DIP-8	FOUI			0.11		w
	SOP-8		$V_{CC}=3V,R_{L}=4\Omega$, THD=10%		0.07		
Output Power (Bridge)	DIP-8		V _{CC} =6V,R _L =4Ω, THD=10%	0.9	1.35		w
	SOP-8	Роит	$V_{CC}=0V,R_{L}=452,THD=10\%$	0.63	0.94		
	DIP-8	POUT	$V_{CC}=3V,R_{L}=4\Omega$, THD=10%		0.35		w
	SOP-8				0.24		
Total Harmonic Distortion	Stereo	- THD	R _L =8Ω, P _{OUT} =0.2W		0.5		%
	Bridge		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		Ст	Stereo, f=1kHz		50		dB
Input Resistance		R _{IN}		100			kΩ
NN							



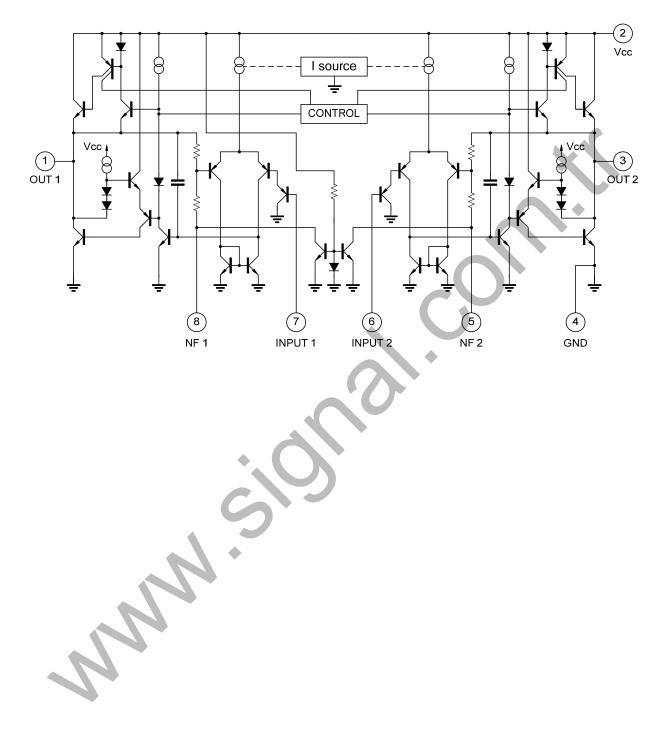
TEST CIRCUIT

STEREO



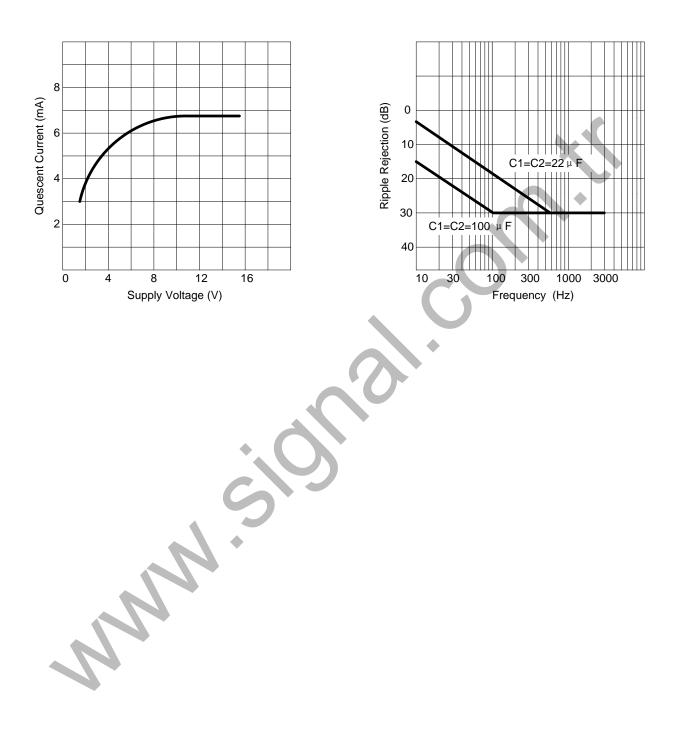


SCHEMATIC DIAGRAM





TYPICAL CHARACTERISTICS



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