## UTCTDA2611 LINEAR INTEGRATED CIRCUIT

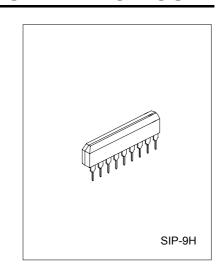
### **DUAL EQUALIZER AMPLIFIER** WITH ALC

#### **DESCRIPTION**

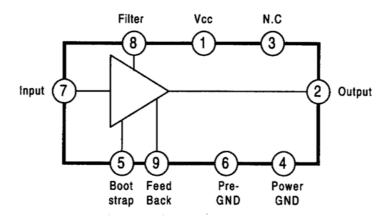
The UTC TDA2611 is a monolithic integrated circuit designed for the TV IF sound power amplifier. It also can be used in audio power amplifier sets.

#### **FEATURES**

- \*Wide operating voltage (6V to 35V)
- \*Few external components
- \*Fixed Closed Loop Gain
- \*High input impedance
- \*Built-in Thermal protection circuit
- \*Fine ripple rejection characteristic



#### **BLOCK DIAGRAM**



#### ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	VALUE	UNIT			
Supply Voltage	Vcc	35	V			
Pulse Peak Output Current	los	3	Α			
Peak Output Current (continuously)	lor	1.5	Α			
Operating Temperature	Topr	-25 to + 150	°C			
Storage Temperature	Tstg	-55 to + 150	°C			

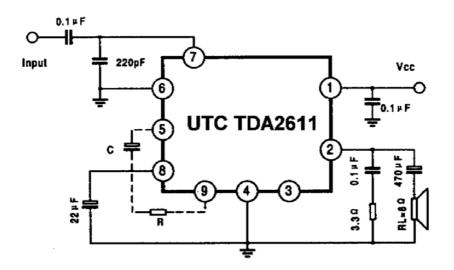
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ELECTRICAL CHARACTERISTICS(Ta=25°C, Vcc=18V, R<sub>I</sub>=8Ω, f=1KHZ, unless otherwise specified)

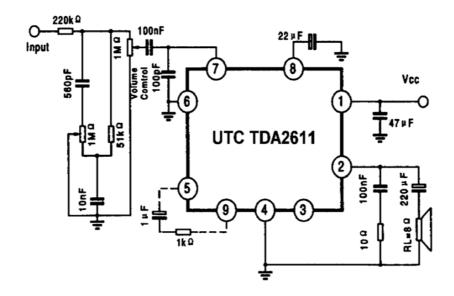
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Output Power	Po	Vcc=18V,R <sub>L</sub> =8Ω,THD=10%	4	4.5		W
		Vcc=12V,R <sub>L</sub> =8Ω,THD=10%		1.7		
		Vcc=8.3V,R <sub>L</sub> =8Ω,THD=10%		0.65		
		Vcc=20V,R <sub>L</sub> =15Ω,THD=10%		6		
		Vcc=25V,R <sub>L</sub> =8Ω,THD=10%		5		
Total Harmonic Distortion	THD	Po=2W			1	%
Bandwidth	BW		15			kHz
Noise Output Voltage	Vno	Rg=5kΩ,60Hz ~ 15kHz		0.2	0.5	mV
Input Impedance	Ri			45		kΩ
Input Sensitivity	Vis	Po=2.5W	44	55	66	mV
Quiescent Circuit Current	Icc	No Input Signal		25		mA

#### **TEST CIRCUIT**



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#### APPLICATION CIRCUIT



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