

**FEATURES**

- MATCHED OPEN LOOP VOLTAGE GAIN
- LOW AUDIO NOISE
- SINGLE POWER SUPPLY
- WIDE POWER SUPPLY RANGE
- BUILT-IN POWER SUPPLY FILTER
- HIGH INPUT IMPEDANCE
- EMITTER FOLLOWER OUTPUT
- LOW DISTORTION
- SELF BIASING
- MINIMUM NUMBER OF EXTERNAL COMPONENTS
- OUTPUT CIRCUIT IS SHORT CIRCUIT PROTECTED
- HIGH CHANNEL SEPARATION
- VARIETY OF FEEDBACK OPTIONS
- NO CIRCUIT DAMAGE IF PLUGGED IN BACKWARDS
- 7.5V REGULATOR BIAS SOURCE

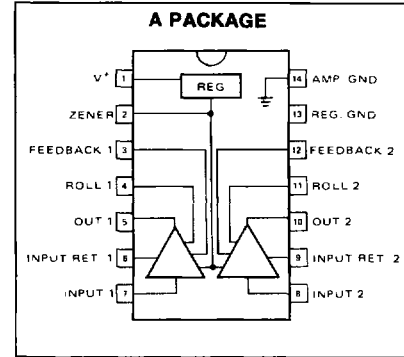
**ABSOLUTE MAXIMUM RATINGS**

Supply Voltage	16V
Temperature	
Storage	-55°C to +150°C
Operating	-30°C to +85°C

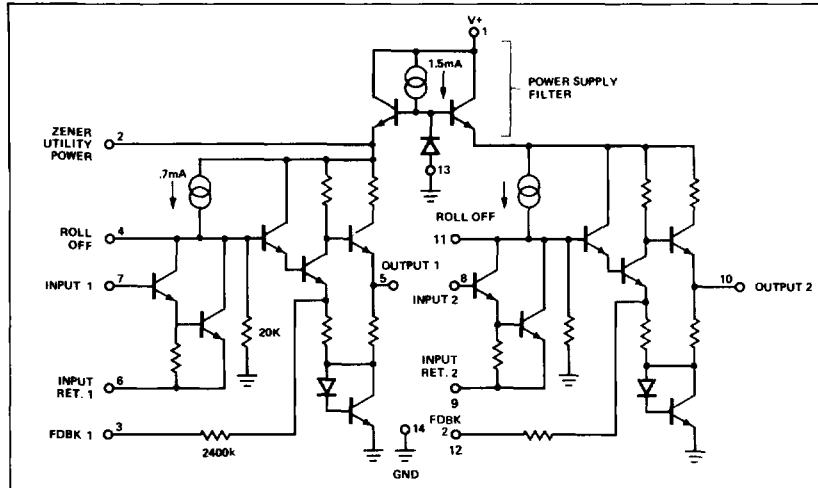
**APPLICATIONS**

- STEREO TAPE PLAYERS/RECORDERS
- DICTATING EQUIPMENT
- MOVIE PROJECTORS
- PHONOGRAPHS
- TV REMOTE CONTROL RECEIVER
- MICROPHONE AMPLIFIERS
- STEREO RADIO RECEIVER SYSTEMS
- VIDEO PREAMPLIFICATION
- NARROW BAND AMPLIFICATION
- DRIVER-PREAMP FOR LOSSY NETWORKS
- SUPER GAIN CASCADED AMPLIFIERS

**CONFIGURATION**



**SCHEMATIC DIAGRAM**



**TEST CIRCUITS**

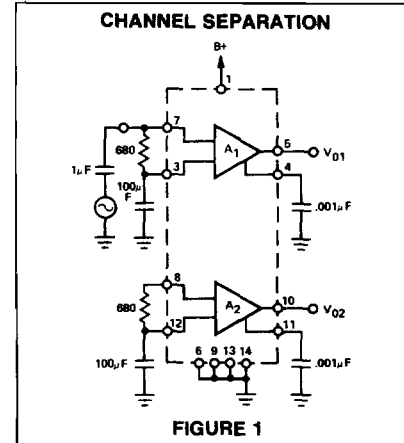


FIGURE 1

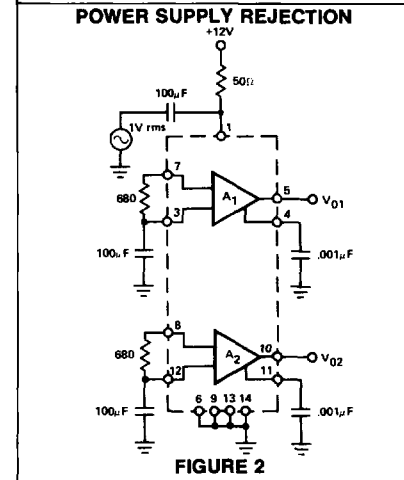


FIGURE 2

**ELECTRICAL CHARACTERISTICS (25°C) (VCC = 12V)**

PARAMETERS	MIN	TYP	MAX	UNITS
Supply Current (VCC = 12V)		16	22	mA
Voltage Gain	65	68	71	dB
Gain Balance		0.3	2	dB
Channel Separation (f = 1 kHz), Figure 1	45	90		dB
Input Resistance	100K	250K		Ω
Signal Output		1.5		Vrms
Output Resistance		100		Ω
Power Supply Rejection (f = 1 kHz), Figure 2	45	55		dB
Total Harmonic Distortion Without Feedback (0.5V rms into 3kΩ Load, 1 kHz)		0.5	0.9	%
Input dc Bias Current		0.8	3	μA
Gain to Feedback Terminal 3, 12		45		dB
Impedance at Feedback Terminal		2400		Ω
Amplifier Noise Figure (100Hz to 10 kHz, 5kΩ Rs)		1.8		dB
Equivalent Input Noise (100Hz to 10 kHz, 680Ω Rs)		0.7	1.2	μV

TEST CIRCUITS (Cont'd)

