

LM378 Dual 4 Watt Audio Amplifier

GENERAL DESCRIPTION

The LM378 is a monolithic dual power amplifier which offers high quality performance for stereo phonographs, tape players, recorders, and AM-FM stereo receivers, etc.

The LM378 will deliver 4W channel into 8 or 16Ω loads. The amplifier is designed to operate with a minimum of external components and contains an internal bias regulator to bias each amplifier. Device overload protection consists of both internal current limit and thermal shutdown.

FEATURES

A_{vo} typical 90 dB
4W per channel
70 dB ripple rejection
75 dB channel separation
Internal stabilization
Self centered biasing
3 M Ω input impedance
Internal current limiting
Internal thermal protection

ABSOLUTE MAXIMUM RATINGS

Supply voltage	35V
Input voltage	OV-V supply
Operating temperature	0°C to +70°C
Storage temperature	—65°C to +150°C
Junction temperature	150°C
Lead Temperature	300°C

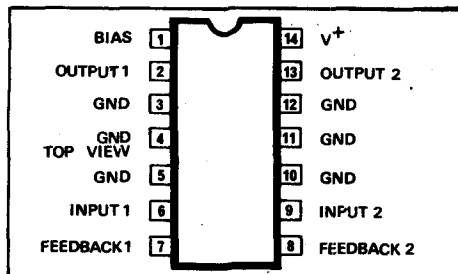
REFERENCE TABLE

Code	Stock No.
LM378N	34964X

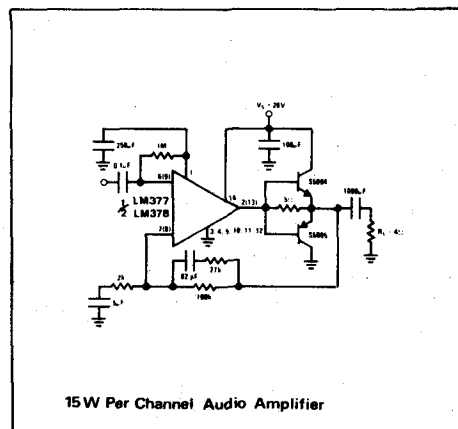
**Also Available From
I.T.T. Electronic Services
The LM383 5 Watt Audio Amplifier
Full Data Available on request**

CONNECTION DIAGRAM

See outline drawing No. 109 for dimensions.



TYPICAL APPLICATIONS



APPLICATIONS

Multi-channel audio systems
Tape recorders and players
Movie projectors
Automotive systems
Stereo phonographs
Bridge output stages
AM-FM radio receivers
Intercoms
Servo amplifiers
Instrument systems