Low Power Audio Amplifier Silicon Monolithic Integrated Circuit

The MC34119 is a low power audio amplifier integrated circuit intended (primarily) for telephone applications, such as in speakerphones. It provides differential speaker outputs to maximize output swing at low supply voltages (2.0 volts minimum). Coupling capacitors to the speaker are not required. Open loop gain is 80 dB, and the closed loop gain is set with two external resistors. A Chip Disable pin permits powering down and/or muting the input signal. The MC34119 is available in a standard 8-pin DIP or a surface mount package.

- Wide Operating Supply Voltage Range (2 16 Volts) Allows Telephone Line Powered Applications
- Low Quiescent Supply Current (2.7 mA Typical) for Battery Powered Applications
- Chip Disable Input to Power Down the IC
- Low Power–Down Quiescent Current (65 μA Typical)
- Drives a Wide Range of Speaker Loads (8 Ohms and Up)
- Output Power Exceeds 250 mW with 32 Ohm Speaker
- Low Total Harmonic Distortion (0.5% Typical)
- . Gain Adjustable from < 0 dB to > 46 dB for Voice Band
- Requires Few External Components

MC34119



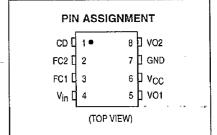
P SUFFIX PLASTIC DIP CASE 626



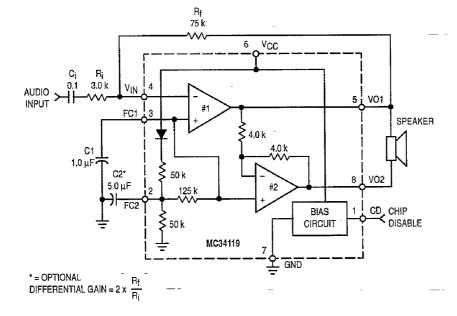
D SUFFIX SOIC PACKAGE CASE 751

ORDERING INFORMATION

MC34119P MC34119D Plastic DIP Plastic SOIC



BLOCK DIAGRAM AND TYPICAL APPLICATION CIRCUIT



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