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HIGH PERFORMANCE ANALOG INTEGRATED CIRCUITS

EL1509C - Product Brief

Medium Power Differential Line Driver

Features

- Drives up to 250mA from a +12V supply
- $20V_{P-P}$ differential output drive into 100Ω
- -85dBc typical driver output distortion at full output at 150kHz
- Low quiescent current of 7.5mA per amplifier

Applications

- ADSL G.lite CO line driving
- ADSL full rate CPE line driving
- G.SHDSL, HDSL2 line driver
- Video distribution amplifier
- Video twisted-pair line driver

Ordering Information

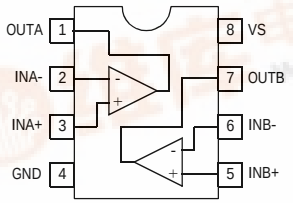
Part No	Package	Tape & Reel	Outline #
EL1509CS	8-Pin SO		MDP0027
EL1509CL	8-Pin LPP		MDP0046

General Description

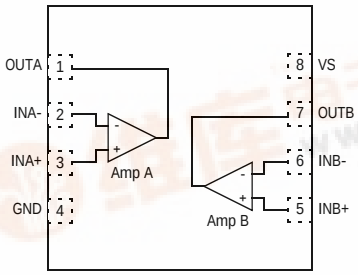
The EL1509C is a dual operational amplifier designed for customer premise line driving in DMT ADSL solutions. This device features a high drive capability of 250mA while consuming only 7.1mA of supply current per amplifier and operating from a single 5V to 12V supply. This driver achieves a typical distortion of less than -85dBc, at 150kHz into a 25Ω load. The EL1509C is available in the industry standard 8-pin SO as well as the thermally-enhanced 8-pin LPP package. Both are specified for operation over the full -40°C to +85°C temperature range.

The EL1509C is ideal for ADSL, SDSL, HDSL2 and VDSL line driving applications.

Connection Diagrams



8-Pin SO



8-Pin LPP Top View

Note: All information contained in this data sheet has been carefully checked and is believed to be accurate as of the date of publication; however, this data sheet cannot be a "controlled document". Current revisions, if any, to these specifications are maintained at the factory and are available upon your request. We recommend checking the revision level before finalization of your design documentation.

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