

**Features**

- Drives 360mA at 16V<sub>P-P</sub> on ±12V supplies
- 40V<sub>P-P</sub> differential output drive into 100Ω
- -75dBc typical driver output distortion driving 50Ω at 1MHz and ½-I<sub>S</sub> bias current
- Low quiescent current of 3.5mA per amplifier in ½-I<sub>S</sub> mode
- Power down disable mode

**Applications**

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

**Ordering Information**

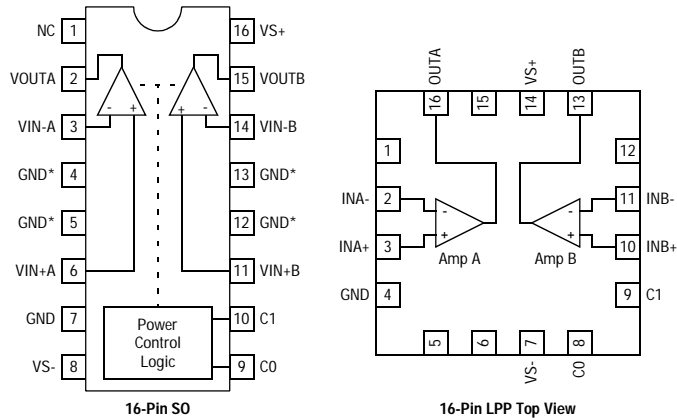
Part No	Package	Tape & Reel	Outline #
EL1507CS	16-Pin SO		MDP0027
EL1507CL	16-Pin LPP		MDP0046

**General Description**

The EL1507C is a very low power dual operational amplifier designed for central office and customer premise line driving for DMT ADSL solutions. This device features a high drive capability of 400mA while consuming only 7.5mA of supply current per amplifier from ±12V supplies. This driver achieves a typical distortion of less than -75dBc, at 1MHz into a 50Ω load. The EL1507C is available in the thermally-enhanced 16-pin SO package, as well as a 16-pin LPP package. Both are specified for operation over the full -40°C to +85°C temperature range.

The EL1507C has two control pins, C0 and C1. With the selection of C0 and C1, the device can be set into full-I<sub>S</sub> power, ¾-I<sub>S</sub> power, ½-I<sub>S</sub> power, and power down disable modes. The EL1507C maintains excellent distortion and load driving capabilities even in the lowest power settings.

**Connection Diagram**



\* These GND pins are heat spreaders

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.

# ***EL1507C - Product Brief***

*Medium Power Differential Line Driver*

## **General Disclaimer**

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HIGH PERFORMANCE ANALOG INTEGRATED CIRCUITS

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