

### Features

- Drives 360mA at 16V<sub>P-P</sub> on  $\pm 12$ V supplies
- 40V<sub>P-P</sub> differential output drive into 100 $\Omega$
- -75dBc typical driver output distortion driving 50 $\Omega$  at 1MHz and  $\frac{1}{2}$ -I<sub>S</sub> bias current
- Low quiescent current of 3.5mA per amplifier in  $\frac{1}{2}$ -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   |

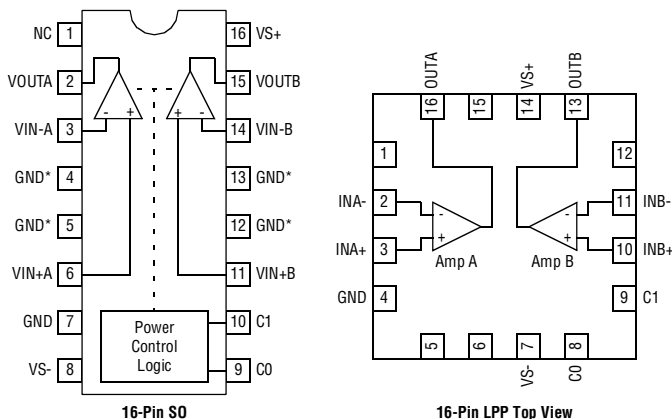
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### General Description

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  $\pm 12$ V supplies. This driver achieves a typical distortion of less than -75dBc, at 1MHz into a 50 $\Omega$  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,  $\frac{3}{4}$ -I<sub>S</sub> power,  $\frac{1}{2}$ -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

# ***EL1507C - Product Brief***

***Medium Power Differential Line Driver***

## **General Disclaimer**

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HIGH PERFORMANCE ANALOG INTEGRATED CIRCUITS

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