# EL1507C - Product Brief

Medium Power Differential Line Driver

#### **Features**

- Drives 360mA at  $16V_{P-P}$  on  $\pm 12V$ supplies
- 40V<sub>P-P</sub> differential output drive into  $100\Omega$
- -75dBc typical driver output distortion driving  $50\Omega$  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**

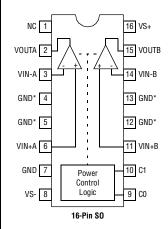
Part No	Package	Tape & Reel	Outline #
EL1507CS	16-Pin SO		MDP0027
EL1507CL	16-Pin LPP		MDP0046

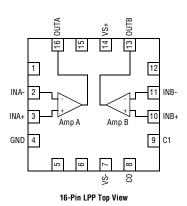
# **General Description**

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  $50\Omega$  load. The EL1507C is available in the thermallyenhanced 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-Is power, \(^34\)-Is power, \(^12\)-Is power, and power down disable modes. The EL1507C maintains excellent distortion and load driving capabilities even in the lowest power settings.

### **Connection Diagram**





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<sup>\*</sup> These GND pins are heat spreaders

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