

EL1507C - Product Brief Medium Power Differential Line Driver

Features

- Drives 360mA at 16V_{P-P} on ±12V supplies
- 40V_{P-P} differential output drive into 100Ω
- -75dBc typical driver output distortion driving 50 Ω at 1MHz and 1/2-IS bias current
- Low quiescent current of 3.5mA per amplifier in ¹/₂-I_S 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

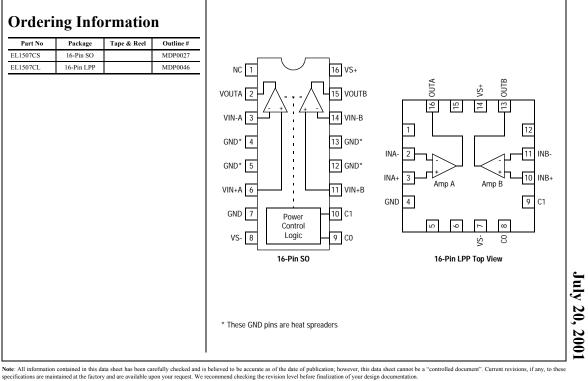
| Part No | Package | Tape & Reel | Outline # |
|----------|------------|-------------|-----------|
| EL1507CS | 16-Pin SO | | MDP0027 |
| EL1507CL | 16-Pin LPP | | MDP0046 |



Connection Diagram

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 Ω 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-I_S power, $\frac{3}{4}$ -I_S power, $\frac{1}{2}$ -I_S power, and power down disable modes. The EL1507C maintains excellent distortion and load driving capabilities even in the lowest power settings.



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