

Medium Power Differential Line Driver



The EL1507 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 $\pm 12V$ supplies. This driver achieves a typical distortion of less than -75dBc, at 1MHz into a 50 Ω load. The EL1507 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 EL1507 has two control pins, C₀ and C₁. With the selection of C₀ and C₁, the device can be set into full-I_S power, ¼-I_S power, ½-I_S power, and power down disable modes. The EL1507 maintains excellent distortion and load driving capabilities even in the lowest power settings.

Features

- Drives 360mA at 16V_{P-P} on $\pm 12V$ supplies
- 40V_{P-P} differential output drive into 100 Ω
- -75dBc typical driver output distortion driving 50 Ω at 1MHz and ½-I_S bias current
- Low quiescent current of 3.5mA per amplifier in ½-I_S mode
- Power down disable mode

Applications

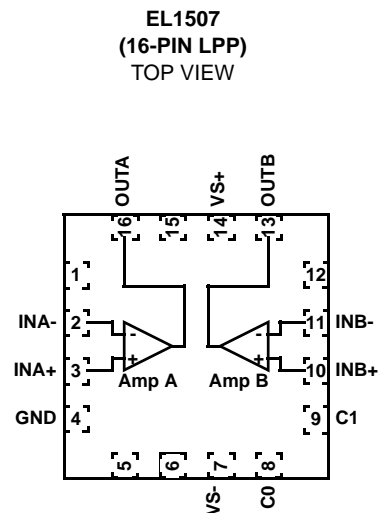
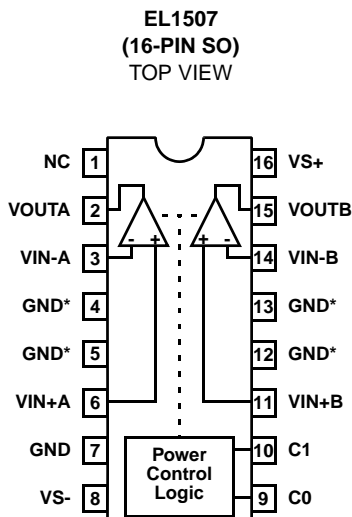
- ADSL G.DMT and G.lite CO line driving
- G.SHDSL, HDSL2 line driver
- ADSL CPE line driving
- Video distribution amplifier
- Video twisted-pair line driver

Ordering Information

PART NUMBER	PACKAGE	TAPE & REEL	PKG. NO.
EL1507CS	16-Pin SO	-	MDP0027
EL1507CS-T7	16-Pin SO	7	MDP0027
EL1507CS-T13	16-Pin SO	13	MDP0027
EL1507CL	16-Pin LPP	-	MDP0046
EL1507CL	16-Pin LPP	7	MDP0046
EL1507CL	16-Pin LPP	13	MDP0046

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Pinouts



NOTE: *THESE GND PINS ARE HEAT SPREADERS

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