

### Medium Power Differential Line Driver



The EL1506 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 3.5mA of supply current per amplifier from  $\pm 12V$  supplies. This driver achieves a typical distortion of less than -75dBc, at 1MHz into a 50 $\Omega$  load. The EL1506 is available in the 28-pin HTSSOP and the 24-pin thermally-enhanced SO packages. Both parts are specified for operation over the full -40°C to +85°C temperature range.

The EL1506 has an ENABLE pin which can be used to enable and disable the outputs.

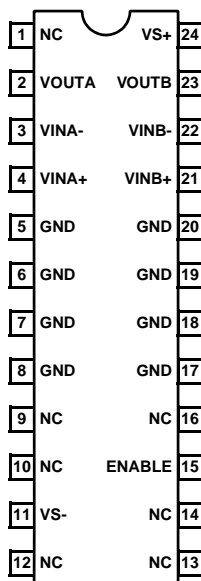
In most applications, the EL1506 is an upgrade and pin-compatible drop-in replacement for the AD8016.

### Ordering Information

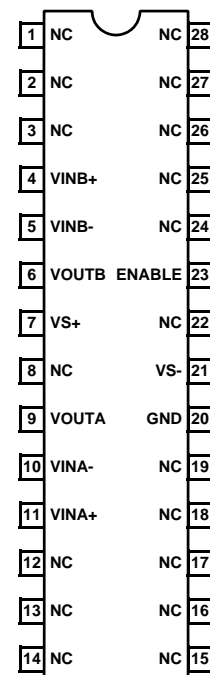
PART NUMBER	PACKAGE	TAPE & REEL	PKG. NO.
EL1506CM	24-Pin SO	-	MDP0027
EL1506CRE	28-Pin HTSSOP	-	MDP0048

### Pinouts

**EL1506  
(24-PIN SO)  
TOP VIEW**



**EL1506  
(28-PIN HTSSOP)  
TOP VIEW**



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### Features

- Drives 360mA at 16V<sub>P-P</sub> 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
- Low quiescent current of 3.5mA per amplifier
- 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
- Functional and pin-compatible with AD8016

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