



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## 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 ±12V supplies. This driver achieves a typical distortion of less than -75dBc, at 1MHz into a 50Ω 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. DWG. #
EL1506CM	24-Pin SO	-	MDP0027
EL1506CRE	28-Pin HTSSOP	-	MDP0048
EL1506CRE-T7	28-Pin HTSSOP	7"	MDP0048
EL1506CRE-T13	28-Pin HTSSOP	13"	MDP0048
EL1506CREZ (See Note)	28-Pin HTSSOP (Pb-free)	-	MDP0048
EL1506CREZ-T7 (See Note)	28-Pin HTSSOP (Pb-free)	7"	MDP0048
EL1506CREZ-T13 (See Note)	28-Pin HTSSOP (Pb-free)	13"	MDP0048

NOTE: Intersil Pb-free products employ special Pb-free material sets; molding compounds/die attach materials and 100% matte tin plate termination finish, which are RoHS compliant and compatible with both SnPb and Pb-free soldering operations. Intersil Pb-free products are MSL classified at Pb-free peak reflow temperatures that meet or exceed the Pb-free requirements of IPC/JEDEC J STD-020.

## Features

- Drives 360mA at 16V<sub>P-P</sub> on ±12V supplies
- 40V<sub>P-P</sub> differential output drive into 100Ω
- -75dBc typical driver output distortion driving 50Ω at 1MHz
- Low quiescent current of 3.5mA per amplifier
- Power-down disable mode
- Pb-Free available (RoHS compliant)

## 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

All Intersil U.S. products are manufactured, assembled and tested utilizing ISO9001 quality systems.  
Intersil Corporation's quality certifications can be viewed at [www.intersil.com/design/quality](http://www.intersil.com/design/quality)

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