



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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Dual Channel Medium Power Differential Line Driver

The EL1527 is a very low power dual channel differentiated 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 EL1527 has two control pins, C₀ and C₁, per channel. With the selection of C₀ and C₁, the device can be set into full-I_S power, 3/4-I_S power, 1/2-I_S power, and power-down disable modes. The EL1527 maintains excellent distortion and load driving capabilities even in the lowest power settings.

The EL1527 is available in the thermally-enhanced 28 Ld HTSSOP package. This device is specified for operation over the full -40°C to +85°C temperature range.

Ordering Information

PART NUMBER	PART MARKING	TEMP. RANGE (°C)	PACKAGE	PKG. DWG. #
EL1527CRE	1527CRE	-40 to +85	28 Ld HTSSOP	MDP0048
EL1527CRE-T7*	1527CRE	-40 to +85	28 Ld HTSSOP	MDP0048
EL1527CRE-T13*	1527CRE	-40 to +85	28 Ld HTSSOP	MDP0048
EL1527CREZ (See Note)	1527CREZ	-40 to +85	28 Ld HTSSOP (Pb-Free)	MDP0048
EL1527CREZ-T7* (See Note)	1527CREZ	-40 to +85	28 Ld HTSSOP (Pb-Free)	MDP0048
EL1527CREZ-T13 (See Note)	1527CREZ	-40 to +85	28 Ld HTSSOP (Pb-Free)	MDP0048

*Please refer to TB347 for details on reel specifications.

NOTE: These Intersil Pb-free plastic packaged products employ special Pb-free material sets, molding compounds/die attach materials, and 100% matte tin plate plus anneal (e3 termination finish, which is 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.

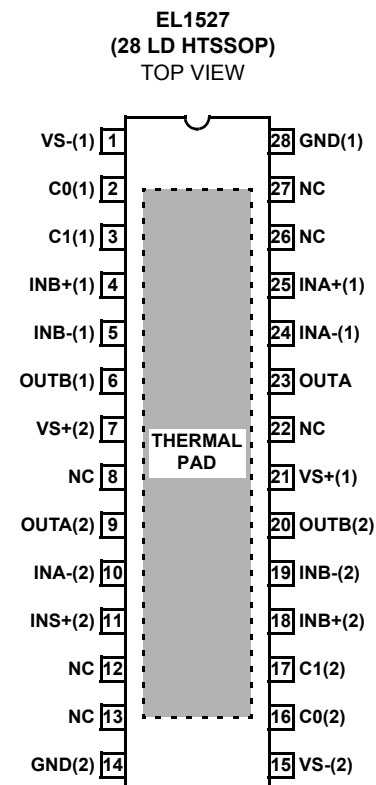
Features

- Drives 360mA at 16V_{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 1/2-I_S bias current
- Low quiescent current of 3.5mA per amplifier in 1/2-I_S mode
- 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

Pinout



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

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