

Dual Channel CO ADSL2+ Line Driver

The EL1537B is a very low power dual channel differentiated amplifier designed for central office 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 EL1537B 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.

The EL1537B has two control pins, C_0 and C_1 , per channel. With the selection of C_0 and C_1 , 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 EL1537B maintains excellent distortion and load driving capabilities even in the lowest power settings. The EL1537B has extended bandwidth and improved THD and slew rate for ADSL2+ and VDSL applications.

Ordering Information

PART NUMBER (Note)	PART MARKING	PACKAGE (Pb-free)	PKG. DWG. #
EL1537BIREZ*	1537BIREZ	28 Ld HTSSOP	MDP0048

*Add "-T7" or "-T13" suffix for tape and reel. 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.

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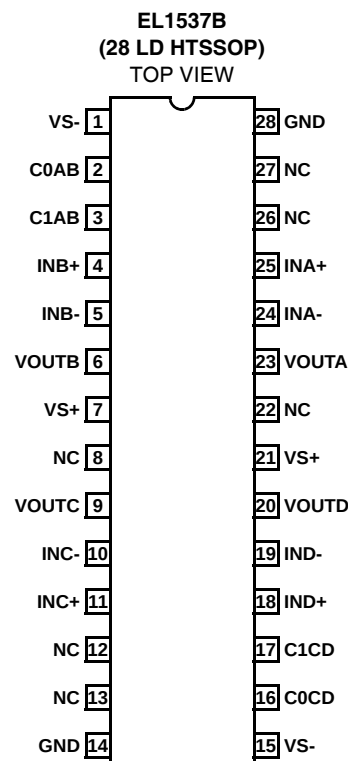
Features

- Drives 400mA at 16V_{P-P} on $\pm 12V$ supplies
- 44V_{P-P} differential output drive into 100 Ω
- 37.2V_{P-P} minimum differential output drive into 60 Ω
- -75dBc typical driver output distortion driving 50 Ω at 1MHz and 1/2- I_S bias current
- Low quiescent current of 4.75mA per amplifier in 1/2- I_S mode
- 50MHz BW at $A_V = 10$
- Power-down disable mode
- Pin-to-Pin replacement for EL1527
- Pb-free (RoHS compliant)

Applications

- ADSL, ADSL2, ADSL2+ line drivers
- G.SHDSL, HDSL2 line drivers
- VDSL line drivers
- Video distribution amplifiers
- Video twisted-pair line drivers

Pinout



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