Data Sheet | July 26, 2004 | FN7017.1

Medium Power Differential Line Driver

The EL1519 is a dual operational amplifier designed for customer premise line driving in DMT ADSL solutions. This device features a high drive capability of 250mA while consuming only 7.1mA of supply current per amplifier and operating from a single 5V to 12V supply. This driver achieves a typical distortion of less than -85dBc, at 150kHz into a 25Ω load. The EL1519 is available in the industry standard 8-pin SO. This device is optimized to use low feedback resistor values to minimize noise in ADSL systems.

The EL1519 is ideal for ADSL, SDSL, HDSL2 and VDSL line driving applications.

Ordering Information

PART NUMBER	PACKAGE	TAPE & REEL	PKG. DWG. #
EL1519CS	8-Pin SO	-	MDP0027
EL1519CS-T7	8-Pin SO	7"	MDP0027
EL1519CS-T13	8-Pin SO	13"	MDP0027
EL1519CSZ (See Note)	8-Pin SO (Pb-free)	-	MDP0027
EL1519CSZ-T7 (See Note)	8-Pin SO (Pb-free)	7"	MDP0027
EL1519CSZ-T13 (See Note)	8-Pin SO (Pb-free)	13"	MDP0027

NOTE: Intersil Pb-free products employ special Pb-free material sets; molding compounds/die attach materials and 100% matte tin plate termination finish, which is 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-020B.

Features

- Drives up to 250mA from a +12V supply
- $20V_{P-P}$ differential output drive into 100Ω
- -85dBc typical driver output distortion at full output at 150kHz
- Low quiescent current of 7.5mA per amplifier

Applications

- ADSL G.lite CO line driving
- ADSL full rate CPE line driving
- G.SHDSL, HDSL2 line driver
- Video distribution amplifier
- Video twisted-pair line driver
- Pb-free available