

Dual Channel Central Office ADSL2+ Line Driver

The ISL1536 is a very low power dual channel differential amplifier designed for central office line driving for DMT ADSL2+. This device features a high drive capability of 400mA while consuming only 4mA of supply current per amplifier from $\pm 12V$ supplies. It integrates gain and bias resistors while maintaining high slew rate and low distortion.

Ordering Information

PART NUMBER (Note)	PART MARKING	TEMP. RANGE (°C)	PACKAGE (Pb-Free)	PKG. DWG. #
ISL1536IRZ	153 6IRZ	-40 to +85	16 Ld QFN	L16.4x4E
ISL1536IRZ-T13*	153 6IRZ	-40 to +85	16 Ld QFN	L16.4x4E

*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.

Get Full Datasheet

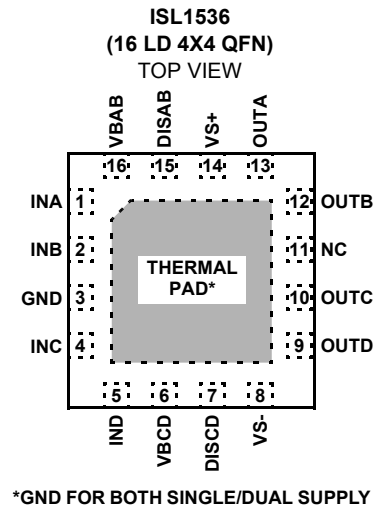
Features

- Internal Fixed Gain $A_V = 12.85$
- Integrated Feedback Resistors
- 43.4V_{P-P} Differential Output Drive into 100Ω
- 41.6V_{P-P} Minimum Differential Output Drive into 60Ω
- -59dBc Typical Driver Output Distortion Driving 50Ω at 2MHz
- Low Quiescent Current of 3mA per Amplifier
- Power-Down Disable Control
- Pb-Free (RoHS Compliant)

Applications

- ADSL, ADSL2, ADSL2+ Line Drivers
- G.SHDSL, HDSL2 Line Drivers
- Video Distribution Amplifiers
- Video Twisted-pair Line Drivers

Pinout



All Intersil U.S. products are manufactured, assembled and tested utilizing ISO9000 quality systems.
Intersil Corporation's quality certifications can be viewed at www.intersil.com/design/quality

Intersil products are sold by description only. Intersil Corporation reserves the right to make changes in circuit design, software and/or specifications at any time without notice. Accordingly, the reader is cautioned to verify that data sheets are current before placing orders. Information furnished by Intersil is believed to be accurate and reliable. However, no responsibility is assumed by Intersil or its subsidiaries for its use; nor for any infringements of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of Intersil or its subsidiaries.

For information regarding Intersil Corporation and its products, see www.intersil.com