

## 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.

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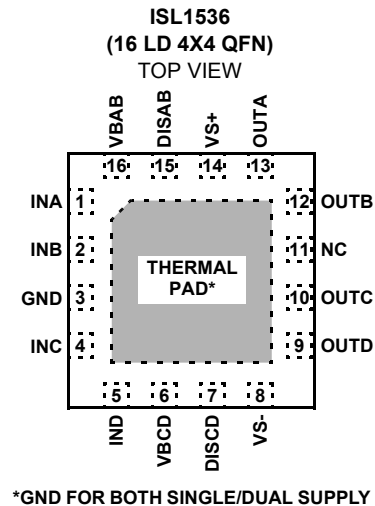
### Features

- Internal Fixed Gain  $A_V = 12.85$
- Integrated Feedback Resistors
- 43.4V<sub>P-P</sub> Differential Output Drive into 100Ω
- 41.6V<sub>P-P</sub> 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](http://www.intersil.com/design/quality)

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