

## 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 3mA 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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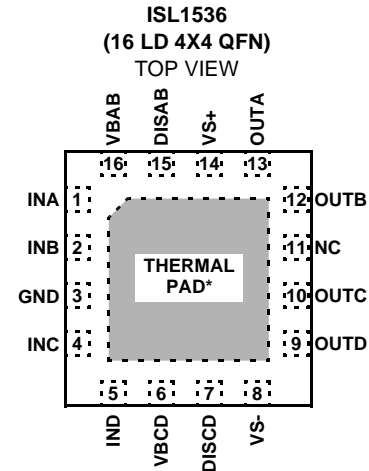
### Features

- 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



\*GND for both single/dual supply

All Intersil U.S. products are manufactured, assembled and tested utilizing ISO9000 quality systems.  
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