

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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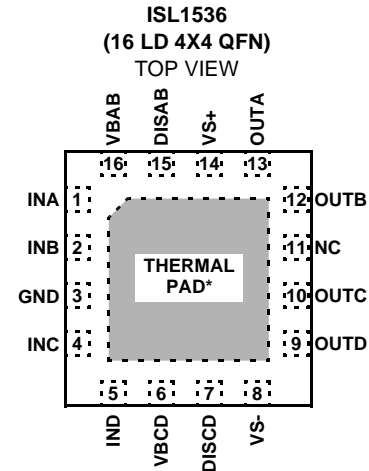
Features

- Internal Fixed Gain $A_V = 12.85$
- Integrated Feedback Resistors
- 43.4V_{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



*GND for both single/dual supply

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