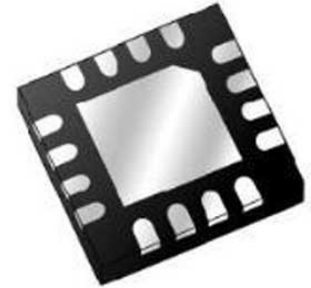


Power Line Communication (PLC); Temperature Range: -40°C to 85°C; Package: 16-QFN

Manufacturers	Renesas Technology Corp
Package/Case	QFN-16
Product Type	Industrial components
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ISL1571IRZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ISL1571 is a dual operational amplifier designed for PLC line driving in Orthogonal Frequency-Division Multiplexing (OFDM) and Spread Spectrum Communication (SSC) based solutions. This device features a high drive capability of 750mA while consuming only 6mA of supply current per amplifier and operating from a single 4.5V to 12V supply. The driver achieves a typical distortion of -80dBc, at 150kHz into a 25Ω load.

The ISL1571 is available in the thermally-enhanced 16 Ld QFN or 10 Ld HMSOP package and is specified for operation across the full -40°C to +85°C temperature range. The ISL1571 has control pins BIAS0 and BIAS1 for controlling the bias and enable/disable of the outputs. These controls allow for lowering the power to fit the performance/power ratio for the application.

The ISL1571 is ideal for line driving applications following the Homeplug 1.0, Homeplug AV and UPA standard based PLC.

Features

21dBm output power capability

Drives up to 750mA from a +12V supply

20VP-P differential output drive into 21Ω

Very low noise floor

-75dBc typical driver output distortion at 4MHz

-80dBc typical driver output distortion at 10MHz

-79dBc typical driver output distortion at 17MHz

Low quiescent current of 6mA per amplifier

Supply range

ISL1571IUEZ: 4.5V to 12V

ISL1571IRZ ±2.25V to ±6V: 4.5V to 12V

250MHz bandwidth

Thermal shutdown

Pb-free (RoHS compliant)

Related Products



[ISL1571IUEZ-T7](#)

Renesas Technology Corp
MSOP-10



[ISL1571IUEZ](#)

Renesas Technology Corp
MSOP-10



[ISL1571IRZ-T7](#)

Renesas Technology Corp
QFN16



[UPG2163T5N](#)

Renesas Technology Corp
TSON-6



[R5F3650KCDFB](#)

Renesas Technology Corp
TQFP-100



[HC55185ECMZ96](#)

Renesas Technology Corp
PLCC-28



[HC55185DIMZ96](#)

Renesas Technology Corp
PLCC-28



[HC55185DIMZ](#)

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