

Power Amplifier



The ISL3980 is a monolithic GaAs Power Amplifier designed to operate in the ISM band. It features two low voltage single supply stages which cascaded deliver 21dBm (Typ) output power.

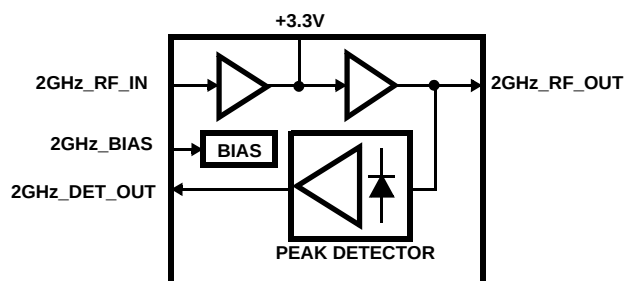
In addition, the device includes an integrated power detector which is accurate over a 15dB dynamic range within ($\pm$)1dB, which can be used to implement an accurate ALC function.

The ISL3980 is housed in a 24 lead QFN package.

Ordering Information

PART NUMBER	TEMP RANGE (°C)	PACKAGE	PKG. DWG. #
ISL3980IR	-40 to 85	24 Ld. QFN	L24.4x4
ISL3980IR-TK	-40 to 85	Tape and Reel (1000 units)	

Simplified Block Diagram



Features

- Single Supply 2.7V to 3.6V
- Output Power 21dBm (Typ)
- Power Gain 28dB (Typ)
- Detector Linear Input Power Range. 15dB
- Detector Accuracy $\pm$ 1dB
- QFN Package
 - Compliant to JEDEC PUB95 MO-220 QFN - Quad Flat No Leads - Package Outline
 - Near Chip Scale Package footprint, which improves PCB efficiency and has a thinner profile

Applications

- Systems Targeting IEEE802.11a/b/g WLANs
- Wireless Local Area Networks (WLAN)
- PCMCIA Wireless Transceivers
- ISM Systems Including Automatic Level Control (ALC)
- TDMA Packet Protocol Radios

Pinout

