

**1.7GHz - 2.3GHz Low Noise Amplifier**



The Harris HFA3421 PRISM™ is a high performance low noise amplifier in a low cost SOIC 8 lead surface mount plastic package. The HFA3421 employs a fully monolithic design which

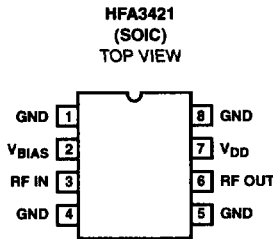
eliminates the need for external tuning networks. It can be biased using 3V or 5V supplies and has an option for biasing at higher currents for increased dynamic range.

The HFA3421 is ideally suited for use where low noise figure, high gain, high dynamic range and low power consumption are required. Typical applications include receiver front ends in the Wireless Local Loop (WLL) systems, as well as standard gain blocks, buffer amps, driver amps and IF amps in both fixed and portable systems.

**Ordering Information**

PART NUMBER	TEMP. RANGE (°C)	PACKAGE	PKG. NO.
HFA3421B	-40 to 85	8 Ld SOIC	M8.15
HFA3421B96	-40 to 85	Tape and Reel	

**Pinout**



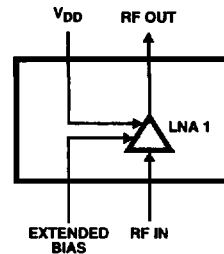
**Features**

- Low Noise Figure . . . . . 1.65dB
- High Gain . . . . . 20dB
- Low Power Consumption . . . . . 3V to 5V, 8mA
- High Dynamic Range
- DC Decoupled RF Input and Output
- No External RF Tuning Elements Necessary
- Low Cost SOIC 8 Lead Plastic Package

**Applications**

- Wireless Local Loop
- TDD Quadrature-Modulated Communication Systems
- Wireless Local Area Networks
- PCMCIA Wireless Transceivers
- TDMA Packet Protocol Radio
- PCS/Wireless PBX

**Functional Block Diagram**



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WIRELESS COMMUNICATIONS