

ADVANCE INFORMATION

March 1993

High-Speed, Low Power, Current Feedback Operational Amplifiers

Features

- Wide -3dB Bandwidth 350MHz
- Very Fast Slew Rate 1500V/us
- Low Supply Current (HFA1105/06/45) <6mA
- Supply Current (HFA1135) <7mA
- Short Circuit Protected
- Compensation Pin Available - HFA1106
- Programmable Output Voltage Clamps - HFA1135
- Output Enable / Disable - HFA1145

Applications

- High Resolution Monitors
- Professional Video Processing
- Medical Imaging
- Video Digitizing Boards/Systems
- Heads Up Displays and Simulators
- Radar/IF Processing
- Hand Held and Miniaturized RF Equipment
- Battery Powered Communications
- Flash Converter Drivers
- High Speed Pulse Amplifiers

Description

The HFA1105, HFA1106, HFA1135, and HFA1145 are wide bandwidth, high speed, low power current feedback operational amplifiers built in Harris's proprietary complementary bipolar UHF-1 process.

The HFA1105 comes in a standard op amp pinout. The HFA1106 features a compensation pin for bandwidth limiting or external clamping applications. The HFA1135 features adjustable negative and positive output voltage clamps via pins 5 and 8. The HFA1145 features a TTL/CMOS compatible disable control, pin 8, that when pulled low, reduces the supply current and puts the output into a high impedance state.

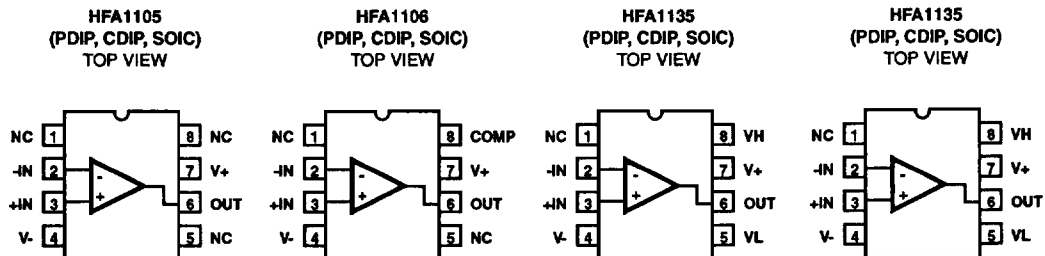
The devices offer improved performance over the CLC406, CLC409, CLC420, CLC502, EL2070, AD9617, and AD9618.

See the "Ordering Information" section below for package and temperature options. For military grade product, please refer to the HFA1105/883, HFA1106/883, HFA1135/883, HFA1145/883 datasheet.

Ordering Information

PART NUMBER	TEMPERATURE RANGE	PACKAGE
HFA1105J, HFA1106J HFA1135J, HFA1145J	-40°C to +85°C	8 Lead Ceramic DIP
HFA1105IP, HFA1106IP HFA1135IP, HFA1145IP	-40°C to +85°C	8 Lead Plastic DIP
HFA1105IB, HFA1106IB HFA1135IB, HFA1145IB	-40°C to +85°C	8 Lead SOIC

Pinouts



CAUTION: These devices are sensitive to electrostatic discharge. Users should follow proper I.C. Handling Procedures.
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