

November 1996

850MHz, Low Distortion Current Feedback Operational Amplifiers

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Features

- Low Distortion (30MHz, HD2) -56dBc
- -3dB Bandwidth 850MHz
- Very Fast Slew Rate 2300V/ μ s
- Fast Settling Time (0.1%) 11ns
- Excellent Gain Flatness
 - (100MHz) ± 0.14 dB
 - (50MHz) ± 0.04 dB
 - (30MHz) ± 0.01 dB
- High Output Current 60mA
- Overdrive Recovery <10ns

Description

The HFA1100, 1120 are a family of high-speed, wideband, fast settling current feedback amplifiers. Built with Harris' proprietary complementary bipolar UHF-1 process, these devices are the fastest monolithic amplifiers available from any semiconductor manufacturer.

The HFA1100 is a basic op amp with uncommitted pins 1, 5, and 8. The HFA1120 includes inverting input bias current adjust pins (pins 1 and 5) for adjusting the output offset voltage.

These devices offer a significant performance improvement over the AD811, AD9617/18, the CLC400-409, and the EL2070, EL2073, EL2030.

For Military grade product refer to the HFA1100/883, HFA1120/883 data sheet.

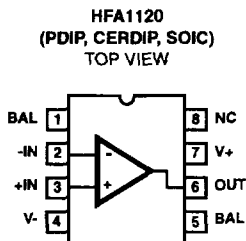
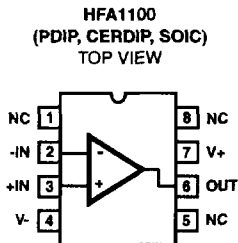
Applications

- Video Switching and Routing
- Pulse and Video Amplifiers
- Wideband Amplifiers
- RF/IF Signal Processing
- Flash A/D Driver
- Medical Imaging Systems
- Related Literature
 - AN9420, Current Feedback Theory
 - AN9202, HFA11XX Evaluation Fixture

Ordering Information

PART NUMBER (BRAND)	TEMP. RANGE (°C)	PACKAGE	PKG. NO.
HFA1100M/J/883, HFA1120M/J/883	-55 to 125	8 Ld CERDIP	F8.3A
HFA1100I, HFA1120I	-40 to 85	8 Ld CERDIP	F8.3A
HFA1100IP, HFA1120IP	-40 to 85	8 Ld PDIP	E8.3
HFA1100IB, HFA1120IB (H1100I, H1120I)	-40 to 85	8 Ld SOIC	M8.15
HFA11XXEVAL	DIP Evaluation Board for High-Speed Op Amps		

Pinouts



The Op Amps With Fastest Edges

