

Rochester Electronics Manufactured Components

Rochester branded components are manufactured using either die/wafers purchased from the original suppliers or Rochester wafers recreated from the original IP. All recreations are done with the approval of the OCM.

Parts are tested using original factory test programs or Rochester developed test solutions to guarantee product meets or exceed the OCM data sheet.

Quality Overview

- ISO-9001
- AS9120 certification
- Qualified Manufacturers List (QML) MIL-PRF-35835
 - Class Q Military
 - Class V Space Level
- Qualified Suppliers List of Distributors (QSLD)
 - Rochester is a critical supplier to DLA and meets all industry and DLA standards.

Rochester Electronics, LLC is committed to supplying products that satisfy customer expectations for quality and are equal to those originally supplied by industry manufacturers.

The original manufacturer's datasheet accompanying this document reflects the performance and specifications of the Rochester manufactured version of this device. Rochester Electronics guarantees the performance of its semiconductor products to the original OEM specifications. 'Typical' values are for reference purposes only. Certain minimum or maximum ratings may be based on product characterization, design, simulation, or sample testing.

November 1996

850MHz, Low Distortion Current Feedback Operational Amplifiers

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 Harris Proprietary Information
 This Document Approved for Release

Features

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

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

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.

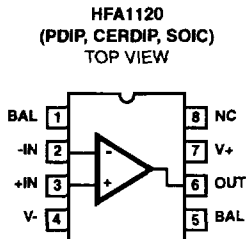
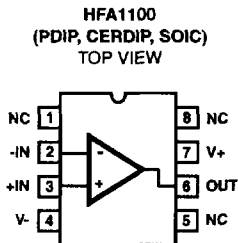
These devices offer a significant performance improvement over the AD811, AD9617/18, the CLC400-409, and the EL2070, EL2073, EL2030.

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

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

