

OPA2650

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2

OPERATIONAL AMPLIFIERS

Dual Wideband, Low Power Voltage Feedback OPERATIONAL AMPLIFIER

FEATURES

- **LOW POWER:** 50mW/Amp
- **UNITY GAIN STABLE BANDWIDTH:** 360MHz
- **FAST SETTLING TIME:** 20ns to 0.01%
- **LOW HARMONICS:** -77dBc at 5MHz
- **DIFFERENTIAL GAIN/PHASE ERROR:** 0.01%/0.025°
- **HIGH OUTPUT CURRENT:** 85mA

APPLICATIONS

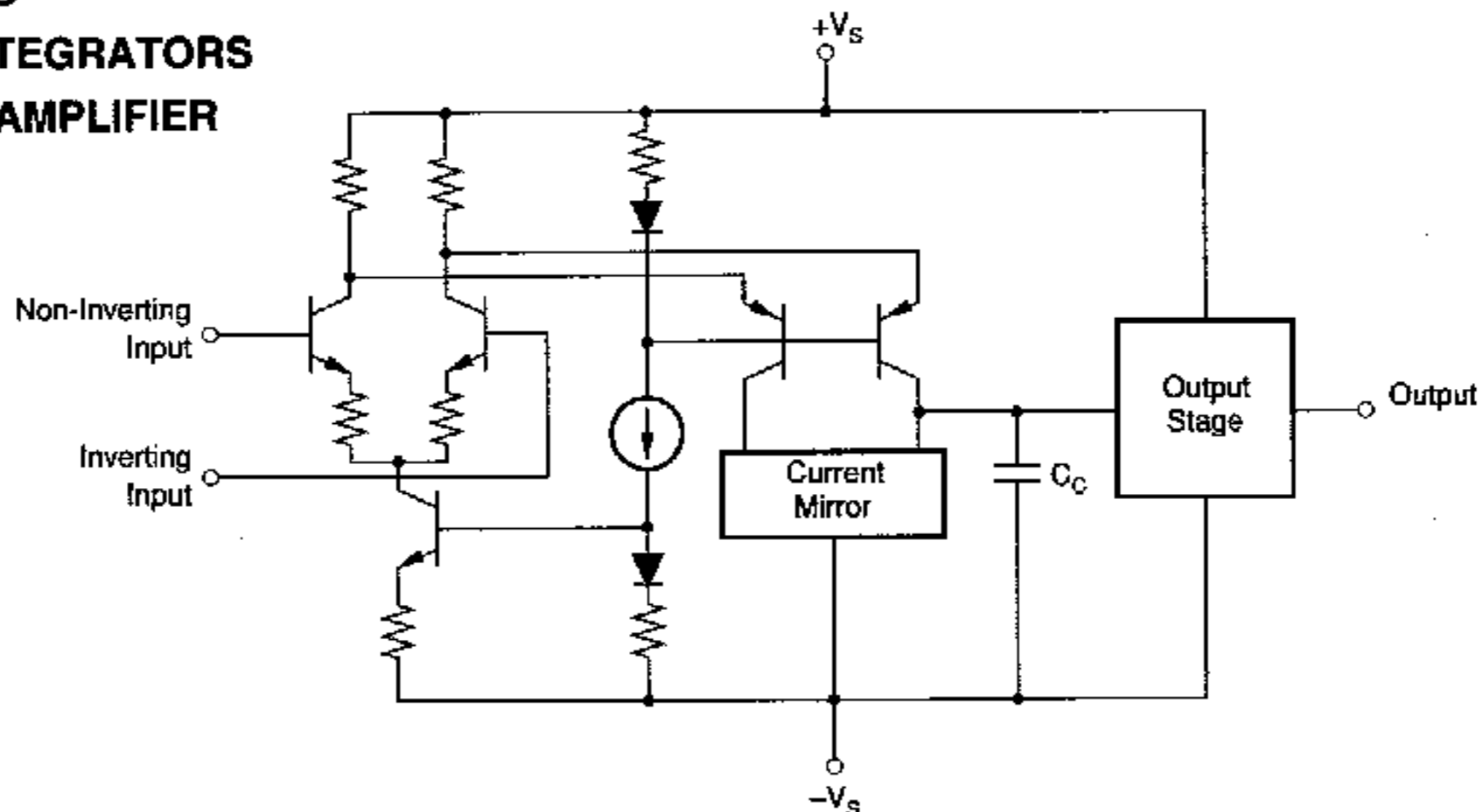
- **HIGH RESOLUTION VIDEO**
- **BASEBAND AMPLIFIER**
- **CCD IMAGING AMPLIFIER**
- **ULTRASOUND SIGNAL PROCESSING**
- **ADC/DAC GAIN AMPLIFIER**
- **ACTIVE FILTERS**
- **HIGH SPEED INTEGRATORS**
- **DIFFERENTIAL AMPLIFIER**

DESCRIPTION

The OPA2650 is a dual, low power, wideband voltage feedback operational amplifier. It features a high bandwidth of 360MHz as well as a 12-bit settling time of only 20ns. The low distortion allows its use in communications applications, while the wide bandwidth and true differential input stage make it suitable for use in a variety of active filter applications. Its low distortion gives exceptional performance for telecommunications, medical imaging and video applications.

The OPA2650 is internally compensated for unity-gain stability. This amplifier has a fully symmetrical differential input due to its "classical" operational amplifier circuit architecture. Its unusual combination of speed, accuracy and low power make it an outstanding choice for many portable, multi-channel and other high speed applications, where power is at a premium.

The OPA2650 is also available in single (OPA650) and quad (OPA4650) configurations.



NOTE: Diagram shows only one-half of the OPA2650.