

### LINEAR INTEGRATED CIRCUITS

#### DESCRIPTION

The SE/NE592 is a monolithic, two stage, differential input, differential output, wideband video amplifier. It offers fixed gains of 100 and 400 without external components and adjustable gains from 400 to 0 with one external resistor. The input stage has been designed so that with the addition of a few external reactive elements between the gain select terminals, the circuit can function as a high pass, low pass, or band pass filter. This feature makes the circuit ideal for use as a video or pulse amplifier in communications, magnetic memories, display and video recorder systems.

#### FEATURES

- 120 MHz BANDWIDTH
- ADJUSTABLE GAINS FROM 0 TO 400
- ADJUSTABLE PASS BAND
- NO FREQUENCY COMPENSATION REQUIRED

#### ABSOLUTE MAXIMUM RATINGS

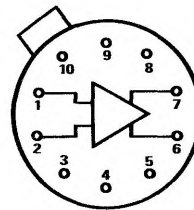
Supply Voltage	±8V
Differential Input Voltage	±5V
Common Mode Input Voltage	±6V
Output Current	10mA
Operating Temperature Range	
SE592K	-55°C to +125°C
NE592K	0°C to + 70°C
Storage Temperature Range	-65°C to +150°C

#### EQUIVALENT CIRCUIT

#### CONNECTION DIAGRAM

##### K PACKAGE

(Top View)



1. Input 1
  2. Input 2
  3. Gain Select  $G_{2B}$
  4. Gain Select  $G_{1B}$
  5.  $V^-$
  6. Output 2
  7. Output 1
  8.  $V^+$
  9. Gain Select  $G_{1A}$
  10. Gain Select  $G_{2A}$
- NOTE: Pin 5 connected to case.

ORDER PART NOS. SE592K/NE592K

