

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.

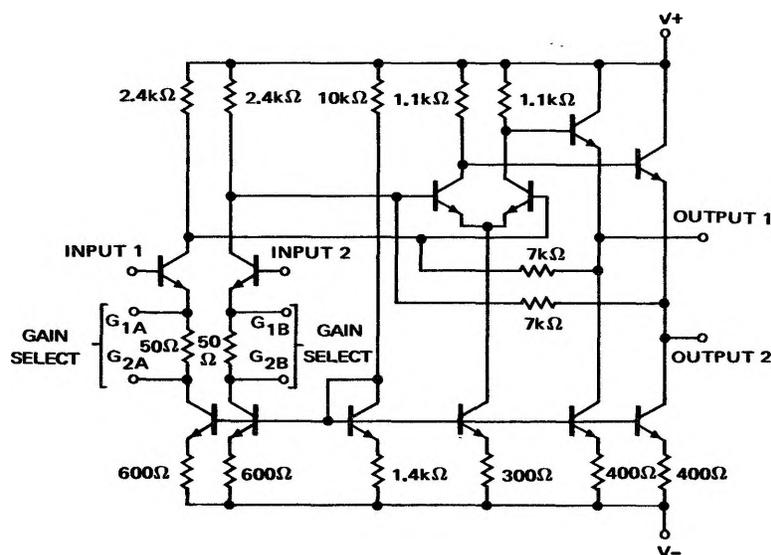
FEATURES

- 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

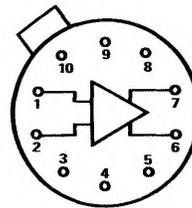
EQUIVALENT CIRCUIT



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