

LINEAR INTEGRATED CIRCUITS

CIRCUIT TYPES SN52709A, SN52709, SN72709 HIGH-PERFORMANCE OPERATIONAL AMPLIFIERS

SERIES 52/72 OPERATIONAL AMPLIFIERS featuring

- Common-Mode Input Range . . . ± 10 V Typical
- Designed to be Interchangeable with Fairchild μ A709A, μ A709, and μ A709C
- Maximum Peak-to-Peak Output Voltage Swing . . . 28 V Typical with 15 V Supplies

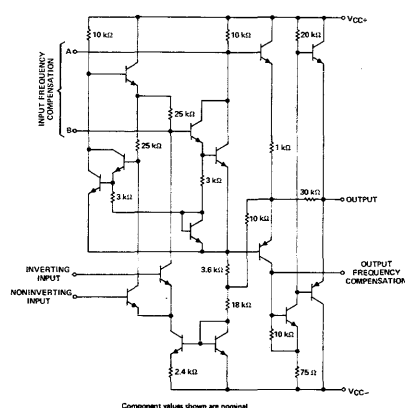
description

These circuits are high-performance operational amplifiers, each having high-impedance differential inputs and a low-impedance output. Component matching, inherent with silicon monolithic circuit-fabrication techniques, produces an amplifier with low-drift and low-offset characteristics. Provisions are incorporated within the circuit whereby external components may be used to compensate the amplifier for stable operation under various feedback or load conditions. These amplifiers are particularly useful for applications requiring transfer or generation of linear or nonlinear functions.

The SN52709A circuit features improved offset characteristics, reduced input-current requirements, and lower power dissipation when compared to the SN52709 circuit. In addition, maximum values of the average temperature coefficients of offset voltage and current are guaranteed.

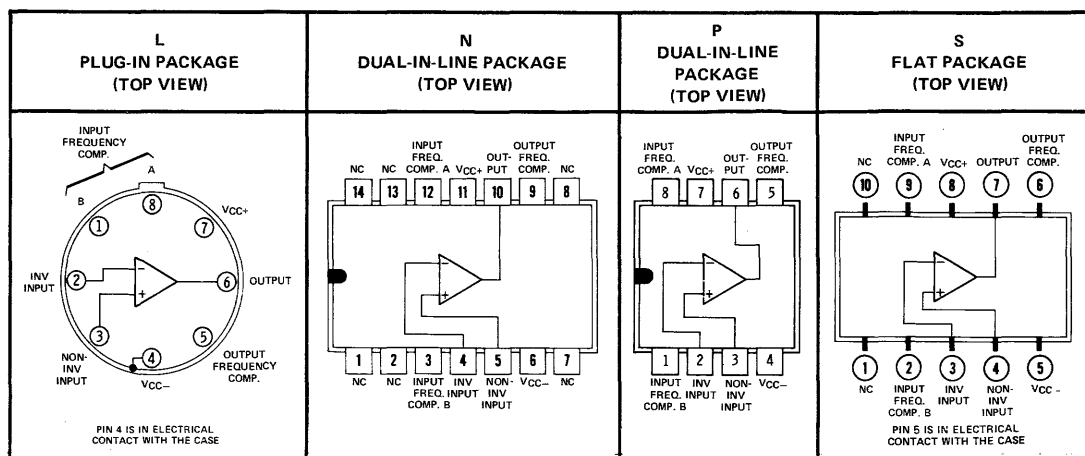
The SN52709A and SN52709 are characterized for operation over the full military temperature range of -55°C to 125°C . The SN72709 is characterized for operation from 0°C to 70°C .

schematic



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terminal assignments



NC—No internal connection

voltages specified

Throughout this data sheet, supply voltages are specified either as a range or as a specific value. A positive voltage within the specified range (or of the specified value) is applied to V_{CC+} , and an equal negative voltage is applied to V_{CC-} .