High bandwidth, High Slew Rate, Uncompensated, High Input Impedance, Operational Amplifiers

Operational amplifiers αRD2520 delivering an unsurpassed combination of specifications for slew rate, bandwidth and settling time. These amplifiers are controlled at close loop gains greater than 3 without external compensation. In addition, these high performance components also provide low offset current and high input impedance.

100 V/µs slew rate and 200 ns (0.1 %) settling time of these amplifiers make them ideal components for pulse amplification and data acquisition designs. These devices are valuable components for RF and video circuitry requiring up to 20 MHz gain bandwidth and 2 MHz power bandwidth. For accurate signal conditioning designs the αRD2520's superior dynamic specifications are complemented by 25nA offset current, 50MΩ input impedance and offset trim capability.

These amplifiers have been developed and certified as HiRel and high RadHard components for airspace and defense equipment.

Ordering information

Part	Mark.	Temp., °C	Package	Package drawing
αRD2520SH5U	2520	-60 to +125	8-lead metal can	SH-8
αRD2522SH5U	2522			

Notes:

1. This Pb-free hermetic packaged products employ 100% Au plate, which is RoHS.

Features

- High slew rate. . . . . 100 V/µs
- Fast Settling . . . . . 500 ns
- Full Power Bandwidth. . . . . 2 MHz
- Gain Bandwidth. . . . . 20 MHz
- High Input Impedance. . . . . 50 MΩ
- Low Offset Current. . . . . 25 nA
- High RadHard. . . . . 10^5 rad
- Compensation Pin for Unity Gain Capability
- Balance pins
- RoHS Compliant

Applications

- Data Acquisition Systems
- RF Amplifiers
- Video Amplifiers
- Signal Generators
- Pulse Amplification

Pinout

8-lead metal can
Top View

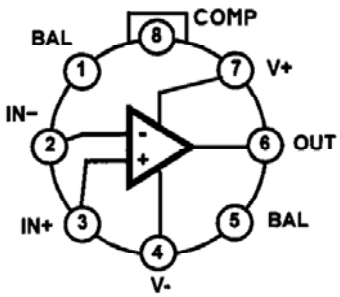

Figure 1. Package pinout