R&T BiCMOS

Low Noise, Cryogenic Differential Amplifier

Prepared by: Bao TON

DESCRIPTION

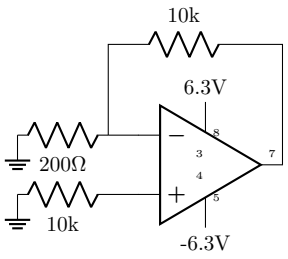
The RH6200 is an ultralow noise, rail-to-rail input and output unity-gain stable op amp that features $0.95nV/\sqrt{Hz}$ noise voltage. This amplifier combines very low noise with a 165MHz gain bandwidth, $50V/\mu s$ slew rate and is optimized for low voltage signal conditioning systems. A shutdown pin reduces supply current during standby conditions and thermal shutdown protects the part from overload conditions. The RH6200 maintains its pre-irradiation performance for supplies from 4.5V to 12.6V and is specified pre- and post-radiation at 5V and ±5V.

ABSOLUTE MAXIMUM RATINGS

(Note 1)

Total Supply Voltage (V^+ to V^-)	12.6V
Input Current (Note 2)	±40mA
Output Short-Circuit Duration (Note 3)	Indefinite
Pin Current While Exceeding Supplies (Note 4)	±30mA
Operating Junction Temperature Range (Note 5)	−55°C to 125°C
Storage Temperature Range	−65°C to 150°C
Lead Temperature (Soldering, 10 sec)	300°C

BURN-IN CIRCUIT



RH6200M F01

PACKAGE/ORDER INFORMATION

ORDER PART NUMBER	
RH6200MW