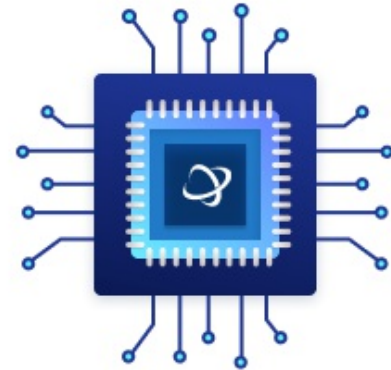


Voltage-Feedback Operational Amplifier

Manufacturers	Analog Devices, Inc
Package/Case	CPAK-10P
Product Type	Amplifier ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for RH1013MW or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The RH1013M is the first precision dual operational amplifier which directly upgrades designs in the industry standard 8-pin DIP LM158/MC1558/OP-221 pin configuration. Low offset voltage (300 μ V max), low drift ($\leq 2.5\mu$ V/ $^{\circ}$ C), low offset current (≤ 1.5 nA), and high gain (1.2 million min) combine to make the RH1013M two truly precision amplifiers in one package.

The wafer lots are processed to Analog Devices' in-house Class S flow to yield circuits usable in stringent military applications.

Features

MIL-PRF-38535 Class V Compliant Version –

Guaranteed Performance Over –55 to +125°C

Input Offset Voltage: 550µV

Low Offset Voltage Drift: 2.5µV/°C

Low Offset Current: 20nA

Gain Bandwidth Product: 500kHz

Minimum Slew Rate: 0.2V/mS

Low Current Noise: Typically 0.07pA/√Hz

Maximum Supply Current: 0.7mA per Amplifier

Supply Voltage ±22V (Absolute Maximum)

Differential Input Voltage ±30V (Absolute Maximum)

Single Supply Operation

Available in CERPAC, Ceramic DIP, Metal Can or as Unpackaged Dice

Radiation Performance

Total Ionizing Dose (TID) Tolerance, per TM1019.8, MIL-STD-883:

200kRad (Si), per condition A at 50Rads(Si)/sec

50kRad (Si), per condition D at 10mRads(Si)/sec

ELDRS Pass 50kRad(Si)

Please Also Refer to RH1014 Web Page for Radiation Reports

Application

Precision Instrumentation Amplifiers

Strain Gauge Signal Conditioners

Thermocouple Amplifiers

4mA to 20mA Current Loop Transmitters

Multiple Limit Threshold Detection

Active Filters

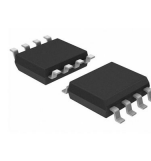
Multiple Gain Blocks

Related Products



[RH1014MW](#)

Analog Devices, Inc
SOIC-8



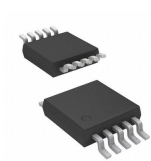
[ADA4311-1ARHZ-R7](#)

Analog Devices, Inc
Mini-SO-EP-8



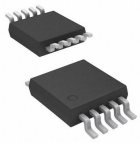
[ADA4311-1ARHZ](#)

Analog Devices, Inc
Mini-SO-EP-10



[ADA4310-1ARHZ-RL](#)

Analog Devices, Inc
10-TFSOP, 10-MSOP (0.118, 3.00mm Width)



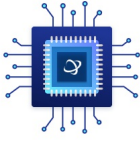
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Analog Devices, Inc
10-TFSOP, 10-MSOP (0.118, 3.00mm Width)



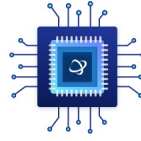
[ADA4310-1ARHZ](#)

Analog Devices, Inc
MSOP-10



[RH101AW](#)

Analog Devices, Inc
CPAK-10P



[RH101ADICE](#)

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CHIPS OR DIE