

## Product Overview

### MC33274A: Operational Amplifiers, Single Supply, High Slew Rate, Low Input Offset Voltage, Quad

For complete documentation, see the data sheet.

The MC33272/74 series of monolithic op-amps are quality fabricated with innovative Bipolar design concepts. This dual and quad operational amplifier series incorporates Bipolar inputs along with a patented Zip-R-Trim element for input offset voltage reduction. The MC33272/74 series of op-amps exhibits low input offset voltage and high gain bandwidth product. Dual-doublet frequency compensation is used to increase the slew rate while maintaining low input noise characteristics. Its all NPN output stage exhibits no deadband crossover distortion, large output voltage swing, and an excellent phase and gain margin. It also provides a low open loop high frequency output impedance with symmetrical source and sink AC frequency performance.

### Features

- Input Offset Voltage Trimmed to 100  $\mu$ V (Typ)
- Low Input Bias Current: 300 nA
- Low Input Offset Current: 3.0 nA
- High Input Resistance: 16 M $\Omega$
- Low Noise: 18 nV/ (sq. root Hz) @ 1.0 kHz
- High Gain Bandwidth Product: 24 MHz @ 100 kHz
- High Slew Rate: 10 V/ $\mu$ s
- Power Bandwidth: 160 kHz
- Excellent Frequency Stability
- Unity Gain Stable: w/Capacitance Loads to 500 pF

For more features, see the data sheet

### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Rail to Rail	Channels	V <sub>S</sub> Min (V)	V <sub>S</sub> Max (V)	I <sub>q</sub> Typ (mA)	V <sub>OS</sub> Max (mV)	GBW Typ (MHz)	SR Typ (V/ $\mu$ s)	I <sub>O</sub> Typ (mA)	$\Delta V_{OS}/\Delta T$ ( $\mu$ V/ $^{\circ}$ C)	e <sub>N</sub> (nV/ $\sqrt$ Hz)	I <sub>bias</sub> Typ (pA)	CMRR Typ (dB)	Architecture	Temperature Range ( $^{\circ}$ C)	Package Type
MC33274ADR2G	0.488	Pb-free Halide free	Active	No	4	3	36	2.15	1	24	10	37	2	18	300000	100	Bipolar	-40 to 85	SOIC-14
MC33274ADTBR2G	0.5832	Pb-free Halide free	Active	No	4	3	36	2.15	1	24	10	37	2	18	300000	100	Bipolar	-40 to 85	TSSOP-14

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