

AXOP33552/3

500MHz RRIO Operational Amplifiers (Dual/Triple)



Datasheet – Aug 2022

Description

The AXOP33552 (dual), and AXOP33553 (triple) are dual and triple low voltage (2.2V to 5.5V), high speed operational amplifiers (opamps) with rail-to-rail input and output swing capabilities. These devices are very suitable for applications where low voltage operation, a small footprint, and high speed are required. AXOP33552S and AXOP33553S are with Shutdown function.

Features

- Unity-gain bandwidth: 500MHz
- Differential Gain: 0.02%
- Differential Phase: 0.05°
- 0.1-dB Gain Flatness: 75MHz
- Rail-to-rail input and output
- Low input offset voltage: $\pm 1\text{mV}$ typ
- Low noise: $2\text{nV}/\sqrt{\text{Hz}}$ @1MHz
- Quiescent current (per opamp): 9mA typ
- Easier to stabilize with higher capacitive load due to resistive open-loop output impedance
- Shutdown function (AXOP33552S and AXOP33553S)

Applications

- Video processing
- Ultrasound
- Optical networking, tunable lasers
- Photodiode transimpedance amplifiers
- ADC input buffers
- DAC output buffers
- Barcode scanners

Table 1 Device Summary

Order code	Package	Packing
AXOP33552A	TSSOP8	Reel
AXOP33552B	DFN8	Reel
AXOP33552C	SOP8	Reel
AXOP33552D	SOT23-8L	Reel
AXOP33552SA	DFN10	Reel
AXOP33552SB	MSOP10	Reel
AXOP33553SA	SOP14	Reel
AXOP33553SB	TSSOP14	Reel

