



## Product Overview

### NCS21911: Precision Operational Amplifier, 2 MHz Bandwidth, Low Noise, Zero-Drift, 25 $\mu$ V Offset

For complete documentation, see the data sheet.



The NCS2191x family of high precision Zero-Drift Op Amps feature low input offset voltage and low offset drift over time and temperature. These devices have low quiescent current and low noise performance with a rail-to-rail output swing within 10 mV of the rails. The NCS21911 operates over a wide supply range from 4 V to 36 V. All versions are specified for operation from -40°C to +125°C. Automotive qualified options are available under the NCV prefix.

#### Features

- Low Offset Voltage: 25  $\mu$ V Max
- Low Offset Drift: 0.085  $\mu$ V/°C max
- Supply Voltage: 4 to 36V
- Quiescent Current: 570  $\mu$ A Max
- Low Noise: 22 nV/ $\sqrt$ Hz typical
- Gain-Bandwidth Product: 2 MHz typical
- Rail-to-Rail Output

#### Benefits

- Low error at the output
- Higher accuracy over temperature
- Wide supply voltage range
- Low Power consumption
- Precision performance
- Higher speed with good slew rate

#### Applications

- Temperature Monitoring
- Transducer Applications
- Electronic Scales
- Medical Instrumentation
- Current Sensing

#### End Products

- Power Supplies
- Traction Invertors
- Motor Control
- Sensor Interface

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 <sub>OS</sub> / $\Delta$ T ( $\mu$ V/C)	e <sub>N</sub> (nV/ $\sqrt$ Hz)	I <sub>bias</sub> Typ ( $\mu$ A)	CMRR Typ (dB)	Architecture	Temperature Range (°C)	Package Type
NCS21911SN2T1G	0.6629	Pb-free Halide free	Active	Output	1	4	36	0.475	0.025	2	1.6	16	0.02	22	100	130	CMOS	-40 to 125	TSO P-5 / SOT -23-5
NCV21911SN2T1G	0.696	AEC Qualified PPAP Capable Pb-free Halide free	Active	Output	1	4	36	0.475	0.025	2	1.6	16	0.02	22	100	130	CMOS	-40 to 125	TSO P-5 / SOT -23-5

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