NCS20064

3MHz, 125µA Low Power, Operational Amplifier

The NCS20061/2/4 operational amplifiers provide rail-to-rail input and output operation, 3 MHz bandwidth, and are available in single, dual, and quad configurations. Rail-to-rail operation gives designers use of the entire supply voltage range while taking advantage of the 3 MHz bandwidth. The NCS20061/2/4 can operate on supply voltages from 1.8 to 5.5 V over a temperature range from -40 to 125°C. At a 1.8 V supply, this device has a slew rate of 1.2 V/ s while consuming only 125 µA of quiescent current per channel. Since this is a CMOS device, high input impedance and low bias currents make it ideal for interfacing to a wide variety of signal sensors. The NCS20061/2/4 devices are available in a variety of compact packages.

Product Family:

	NCS20061	NCS20062	NCS20064
Channel	1	2	4
Packages	SOT23-5, SC-70-5	SOIC-8, Micro-8, TSSOP-8	TSSOP-14, SOIC-14

- Bandwidth: 3 MHz
- Wide Supply Range: 1.8 to 5.5V
- Rail to Rail Input and Output
- Low Supply Current: 125 µA per channel
- Temperature Range: -40 to 125 deg C
- NCV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q100 Qualified and PPAP Capable
- Faster slewing and speed
- Ability to operate with 3V, 3.3V and 5V rails
- Wide dynamic range
- Low Power operation
- Wide operating temperature

- Battery Power/ Low Quiescent Current Applications
- Low Cost Current Sensing
- Signal Condition Circuits
- Home Security
- Automotive
- Motor Control

	Pricing ($/Unit)	Compliance	Status	Rail to Rail	Channels	V_S Min (V)	V_S Max (V)	I_q Typ (mA)	V_{OS} Max (mV)	GBW Typ (MHz)	SR Typ (V/µs)	I_O Typ (mA)	$\Delta V_{OS}/\Delta T$ (µV/C)	e_N (nV/√Hz)	I_{bias} Typ (pA)	CMRR Typ (dB)	Architecture	Temperature Range (°C)	Package Type
NCS20064DR2G	0.3508	Pb H	Active	Input/Output	4	1.8	5.5	0.125	3.5	3	1.2	15	1	20	1	79	CMOS	-40 to 125	SOIC-14
NCS20064DTBR2G	0.4209	Pb H	Active	Input/Output	4	1.8	5.5	0.125	3.5	3	1.2	15	1	20	1	79	CMOS	-40 to 125	TSSOP-14
NCV20064DR2G	0.406	A P Pb H	Active	Input/Output	4	1.8	5.5	0.125	3.5	3	1.2	15	1	20	1	79	CMOS	-40 to 125	SOIC-14
NCV20064DTBR2G	0.4589	A P Pb H	Active	Input/Output	4	1.8	5.5	0.125	3.5	3	1.2	15	1	20	1	79	CMOS	-40 to 125	TSSOP-14