



# NCS2005

## 8 MHz GBW

NCS2005 NCS2005 2.2 V 32 V NCS2005 1.3 mA 8 MHz NCS2005 5 SOT-23

- Wide Power Supply Range: 2.2 V to 32 V
  - Common Mode Voltage Range Wider than Rail-to-Rail: VCM = -0.1 V to 5.1 V @ VS = 5 V
  - Wide Gain-bandwidth: 8 MHz typical
  - Low Supply Current: 1.3 mA typical
  - Stable with a 1 nF Capacitor Load with a Phase Margin over 25° @ VS = 10 V
  - Available in a Space-saving 5-pin SOT23 Package
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- Active Filters
  - Voltage Referenced Buffers
  - Sensors and Instrumentation
  - Microphone Amplifiers
  - ASIC Input Drivers

	Pricing (\$/Unit)	Compliance	Status	Rail to Rail	Channels	V <sub>S</sub> Min (V)	V <sub>S</sub> Max (V)	I <sub>a</sub> Typ (mA)	V <sub>OS</sub> Max (mV)	GBW Typ (MHz)	SR Typ (V/μs)	I <sub>o</sub> Typ (mA)	ΔV <sub>os</sub> /ΔT (μV/C)	e <sub>N</sub> (nV/√Hz)	I <sub>bias</sub> Typ (pA)	CMRR Typ (dB)	Architecture	Temperature Range (°C)	Package Type
NCS2005SN1T1G	0.22	 	Active	Input/Output	1	2.2	32	1.3	6	8	2.7	12	1	45	50000	84	Bipolar	-40 to 125	TSOP-5 / SOT-23-5