



















## NCS20032

NCS2003 1.8 V (1.8 V 5 MHz) (4 mV) 1 pA NCS2003 NCS2003 NCS20032 NCS20034 NCV AEC-Q100 PPAP

- Unity Gain Bandwidth: 7 MHz at  $V_S = 5\text{ V}$
- Fast Slew Rate: 8 V/ $\mu\text{s}$  rising, 12.5 V/ $\mu\text{s}$  falling at  $V_S = 5\text{ V}$
- Rail-to-Rail Output
- No Output Phase Reversal for Over-Driven Input Signals
- Low Offset Voltage: 0.5 mV typical
- Low Input Bias Current: 1 pA typical
- NCV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q100 Qualified and PPAP Capable
- Operates at higher speeds
- Captures fast signal transitions
- Wide dynamic range
- Output stays stable in over-driven conditions
- Better output accuracy
- High input impedance
- Meets automotive requirements
- Current Shunt Monitor
- Signal Conditioning
- Active Filter
- Sensor Buffer
- Motor Control Drives
- Hard Drives
- Medical Devices
- White Goods and Air Conditioners

|                | 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 |
|----------------|-------------------|---|--------|--------------|----------|------------------------|------------------------|-------------------------|--------------------------|---------------|---------------|-------------------------|-----------------------------|-------------------------|----------------------------|---------------|--------------|------------------------|--------------|
| NCS20032DMR2G  | 0.2875            |     | Active | Output       | 2        | 1.7                    | 5.5                    | 0.325                   | 4                        | 7             | 8             | 76                      | 2                           | 20                      | 1                          | 90            | CMOS         | -40 to 125             | Mic8         |
| NCS20032DR2G   | 0.4055            |     | Active | Output       | 2        | 1.7                    | 5.5                    | 0.325                   | 4                        | 7             | 8             | 76                      | 2                           | 20                      | 1                          | 90            | CMOS         | -40 to 125             | SOIC-8       |
| NCS20032DTBR2G | 0.2875            |     | Active | Output       | 2        | 1.7                    | 5.5                    | 0.325                   | 4                        | 7             | 8             | 76                      | 2                           | 20                      | 1                          | 90            | CMOS         | -40 to 125             | TSOP-8       |
| NCV20032DMR2G  | 0.2875            |     | Active | Output       | 2        | 1.7                    | 5.5                    | 0.325                   | 4                        | 7             | 8             | 76                      | 2                           | 20                      | 1                          | 90            | CMOS         | -40 to 125             | Mic8         |
| NCV20032DR2G   | 0.3105            |     | Active | Output       | 2        | 1.7                    | 5.5                    | 0.325                   | 4                        | 7             | 8             | 76                      | 2                           | 20                      | 1                          | 90            | CMOS         | -40 to 125             | SOIC-8       |
| NCV20032DTBR2G | 0.2875            |     | Active | Output       | 2        | 1.7                    | 5.5                    | 0.325                   | 4                        | 7             | 8             | 76                      | 2                           | 20                      | 1                          | 90            | CMOS         | -40 to 125             | TSOP-8       |