

## 产品概览

### NCS2250: 比较器，高速，50 ns，低电压，轨对轨，推拉

欲看完整文档，请参阅数据表。

NCS2250 低电压比较器，具有快速响应时间，以及轨对轨输入和输出。宽广的共模输入电压范围，轨道上下允许 200 mV 输入信号，支持接地或电源电压检测。此款比较器具有 50 ns 传播延迟，100 mV 过驱动，适合需要快速响应时间的应用。此类单沟道器件在 NCS2250 中的一个互补推拉输出提供，并采用 SOT23-5 和 SC70-5 封装。此外，还提供符合汽车标准的器件，用前缀 NCV 表示。

#### 特性

- Propagation delay: 50 ns with 100 mV overdrive
- Rail-to-rail input: VSS -200 mV to VDD +200 mV
- Supply voltage: 1.8 V to 5.5 V
- Supply current: 150  $\mu$ A typical at 5 V supply
- Push-pull output
- Packages: SC-70 and SOT23-5
- AEC-Q100 qualified and PPAP capable options available

#### 应用

- Voltage threshold detector
- Zero-crossing detectors
- High-speed sampling circuits
- Logic level shifting/translation
- Clock and data signal restoration

#### 优势

- Fast propagation to meet high speed sampling needs
- Flexible use across a wide range of input signals including the supply rails
- Low voltage supply capable down to 1.8V allows the device to be compatible with low voltage systems
- Low supply current reduces power consumption
- Ready for high-z load or input pins
- Available in small packages
- Meets automotive requirements

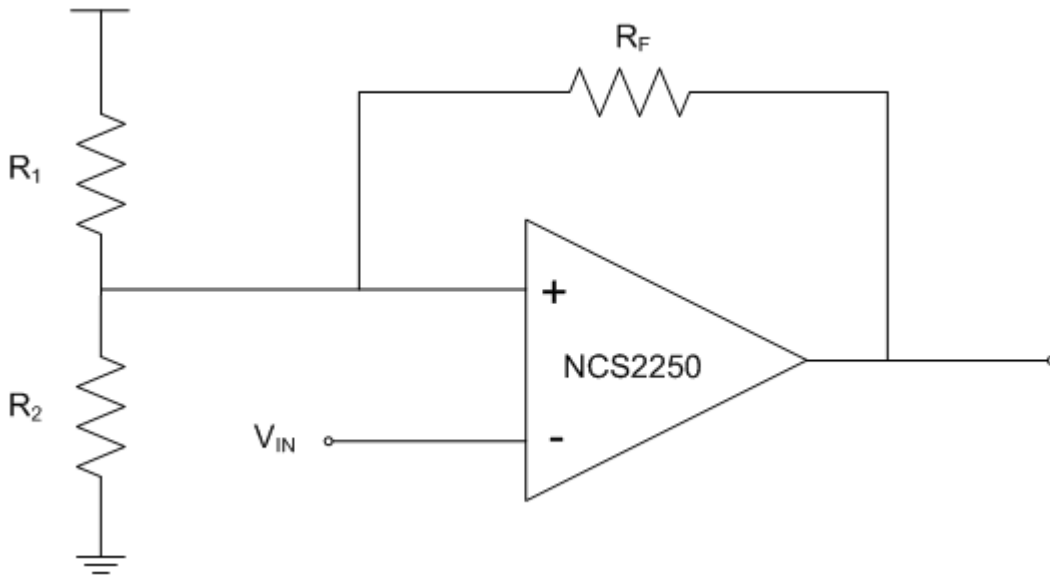
#### 终端产品

- Automotive
- Lighting
- Smartphones, cell phones
- Portable and battery-powered systems
- Power supplies

### 器件电气规格

产品	Pricing (\$/Unit)	Compliance	Status	Channels	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	I <sub>O</sub> Typ (mA)	I <sub>CC</sub> Typ (mA)	t <sub>res</sub> Typ (ns)	V <sub>IO</sub> Max (mV)	T <sub>A</sub> Min (°C)	T <sub>A</sub> Max (°C)	Package Type
NCS2250SN2T1G	0.1267	Pb-free Halide free	Active	1	1.8	5.5	50	0.15	50	6	-40	125	TSOP-5 / SOT-23-5
NCS2250SQ2T2G	0.1267	Pb-free Halide free	Active	1	1.8	5.5	50	0.15	50	6	-40	125	SC-88A / SC-70-5
NCV2250SN2T1G	0.152	AEC Qualified PPAP Capable Pb-free Halide free	Active	1	1.8	5.5	50	0.15	50	6	-40	125	TSOP-5 / SOT-23-5
NCV2250SQ2T2G	0.152	AEC Qualified PPAP Capable Pb-free Halide free	Active	1	1.8	5.5	50	0.15	50	6	-40	125	SC-88A / SC-70-5

## 应用框图



欲了解更多信息，请联系您当地的销售支援 [www.onsemi.cn](http://www.onsemi.cn)。

创建于：8/7/2020