

# NCS2511

## 1 GHz Current Feedback Op Amp

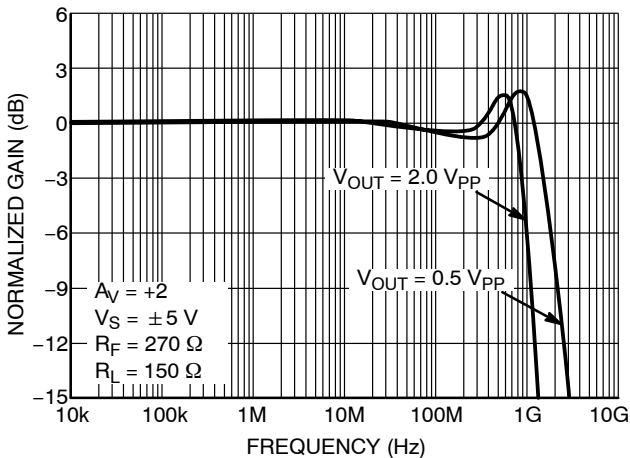
NCS2511 is a 1 GHz current feedback monolithic operational amplifier featuring high slew rate and low differential gain and phase error. The current feedback architecture allows for a superior bandwidth and low power consumption.

### Features

- -3.0 dB Small Signal BW ( $A_V = +2.0$ ,  $V_O = 0.5 V_{P-P}$ ) 1 GHz Typ
- Slew Rate 2500 V/ $\mu$ s
- Supply Current 7.5 mA
- Input Referred Voltage Noise 5.0 nV/ $\sqrt{\text{Hz}}$
- THD -67 dB ( $f = 5.0$  MHz,  $V_O = 2.0 V_{P-P}$ )
- Output Current 120 mA
- Pin Compatible with AD8001, TSH350, OPA681
- This is a Pb-Free Device

### Applications

- High Resolution Video
- Line Driver
- High-Speed Instrumentation
- Wide Dynamic Range IF Amp
- Set Top Box
- NTSC/PAL/HDTV



**Figure 1. Frequency Response:**  
Gain (dB) vs. Frequency  
 $A_V = +2.0$



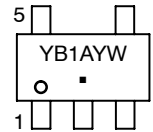
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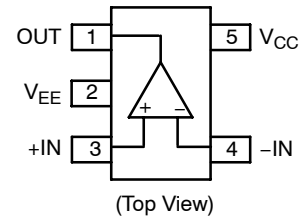
**SOT23-5  
(TSOP-5)  
SN SUFFIX  
CASE 483**

### MARKING DIAGRAM



YB1 = NCS2511  
A = Assembly Location  
Y = Year  
W = Work Week  
▪ = Pb-Free Package

### SOT23-5 (TSOP-5) PINOUT



### ORDERING INFORMATION

Device	Package	Shipping <sup>†</sup>
NCS2511SNT1G	SOT23-5 (TSOP-5) (Pb-Free)	3000/Tape & Reel

<sup>†</sup>For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification Brochure, BRD8011/D.