

# NCS2500

## 1.1 mA 200 MHz Current Feedback Op Amp

NCS2500 is a 1.1 mA 200 MHz 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 ( $A_V = +2.0$ ,  $V_O = 0.5 V_{p-p}$ ) 200 MHz Typ
- Slew Rate 450 V/ $\mu$ s
- Supply Current 1.1 mA
- Input Referred Voltage Noise 4.0 nV/ $\sqrt{\text{Hz}}$
- THD -55 dB ( $f = 5.0$  MHz,  $V_O = 2.0 V_{p-p}$ )
- Output Current 100 mA
- Pin Compatible with EL5161, LMH6723, MAX4452
- Pb-Free Packages are Available

### Applications

- Portable Video
- Line Drivers
- Radar/Communication Receivers
- Set Top Box
- NTSC/PAL/HDTV

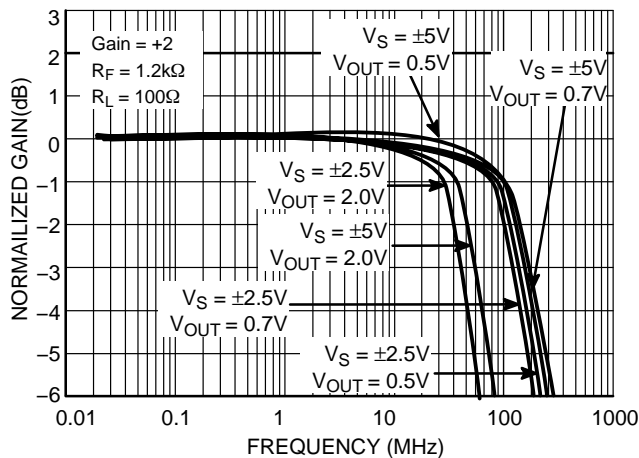


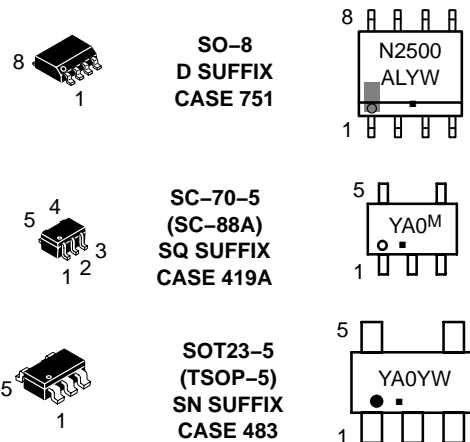
Figure 1. Frequency Response: Gain (dB) vs. Frequency  $A_V = +2.0$ ,  $R_L = 100 \Omega$



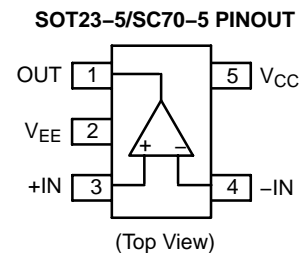
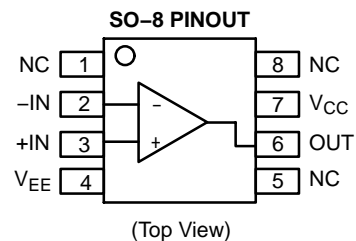
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### MARKING DIAGRAMS



YA0, N2500 = NCS2500  
 A = Assembly Location  
 L = Wafer Lot  
 Y = Year  
 W = Work Week  
 M = Date Code  
 ■ = Pb-Free Package



### ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 13 of this data sheet.