National Semiconductor

CLC200/206/231 Evaluation Boards

Part Numbers CLC730008, CLC730009

August 1996

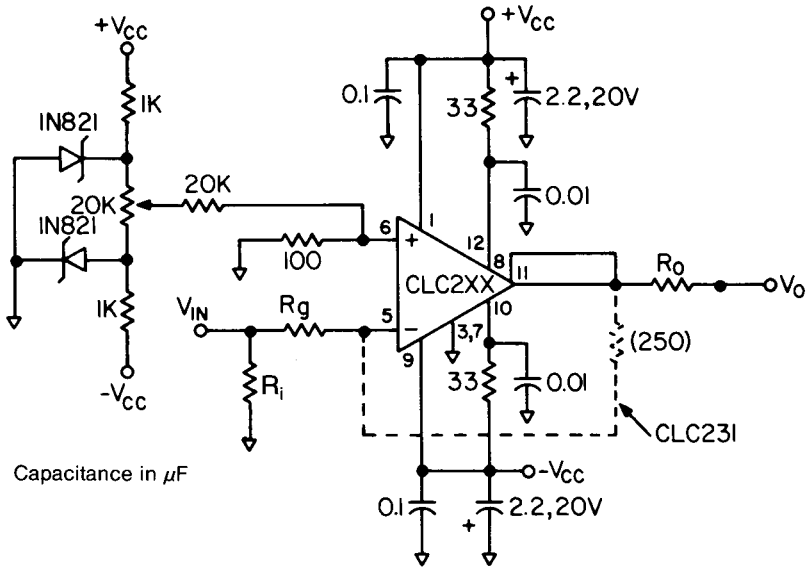
Description

Comlinear part numbers 730008 (inverting) and 730009 (non-inverting) are evaluation boards designed to help design engineers evaluate and use the CLC2XX Series op amps. In addition, the boards can serve as a guide for engineers who are developing printed circuit layouts for op amps.

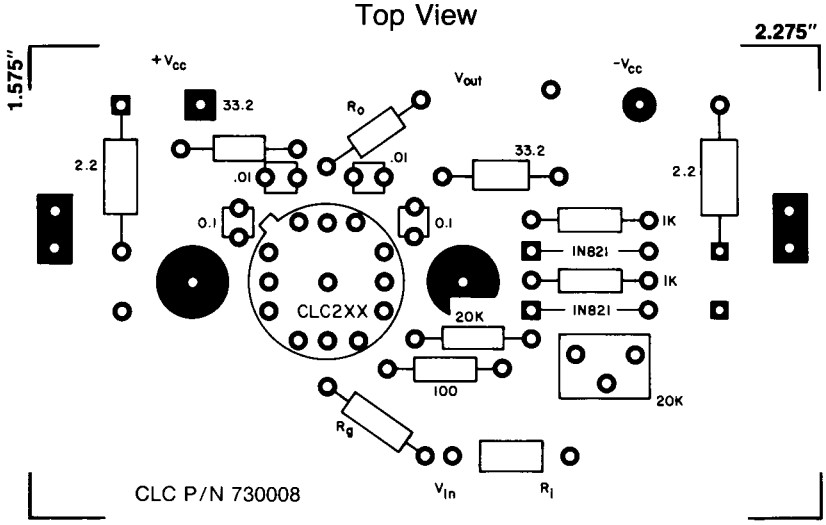
Part number 730008 is designed for inverting gains, and part number 730009 is designed for non-inverting gains. Each is discussed individually.

Part Number 730008 – Inverting Gains

Schematic



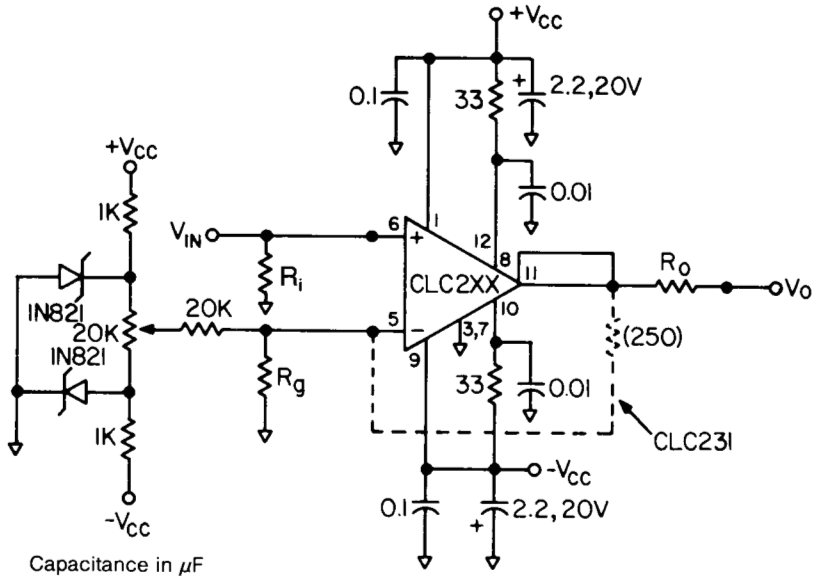
Top View



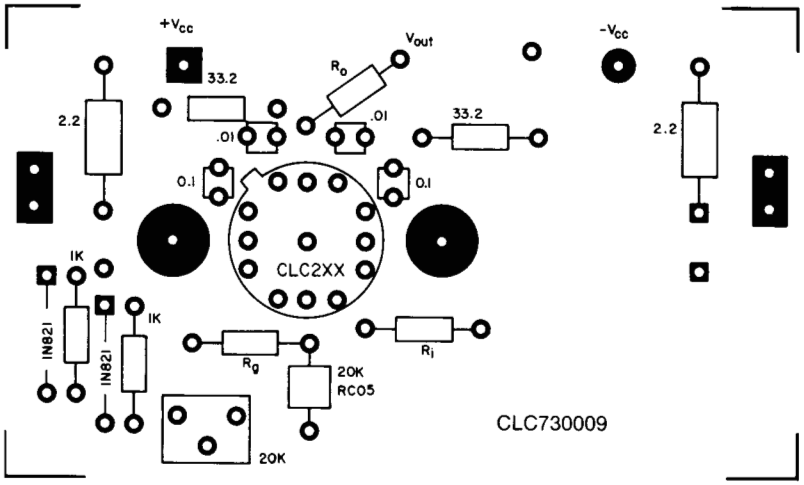
Note to CLC231 Users: Cut traces between pins 11 and 8 on bottom of board and add a 250Ω resistor between pins 5 and 11 (on bottom).

Part Number 730009 – Non-Inverting Gains

Schematic



Top View



Note to CLC231 Users: Cut traces between pins 11 and 8 on bottom of board and add a 250Ω resistor between pins 5 and 11 (on bottom).

Parts List

RESISTORS:

Designator	Value or Equation	
	Non-Inverting	Inverting
R_o	Z (out)	Z (out)
R_g	$R_f/(A_v - 1)$	$R_f/\|A_v\|$
R_i	Z (in)	Z (in) $R_g/[R_g - Z\ (in)]$

All resistors metal film RN55D or equivalent except:
20k trimpot (offset adjust)
20k RC05 (or equivalent)

CAPACITORS:

Designator	Value
.01	.01 uf, 20V ceramic
.1	0.1 uf, 20V ceramic
2.2	2.2 uf, 20V tantalum

HARDWARE:

Sockets Cambion flush-mount connector jacks (#450-2598)

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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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