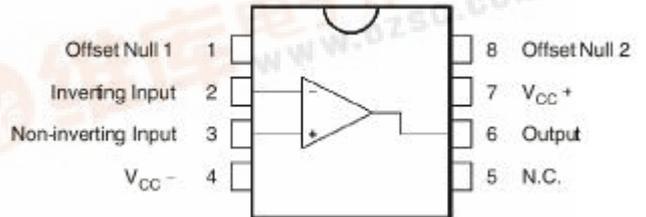


## IL9002N OPERATIONAL AMPLIFIER

The IL9002N is a very high precision op amp with an offset voltage maximum of 250 $\mu$ V. Offering also low input current (14nA) and high gain (120V/mV), the IL07N is particularly suitable for instrumentation applications.

**FEATURES:**

- EXTREMELY LOW OFFSET : 250mV MAX**
- LOW INPUT BIAS CURRENT : 14nA**
- LOW  $V_{io}$  DRIFT : 0.5mV/°C**
- SUPPLY VOLTAGE RANGE :  $\pm 13V$  to  $\pm 18V$**



Symbol	Parameter	Value	Unit
V <sub>cc</sub>	Supply Voltage	$\pm 15$	V
V <sub>d</sub>	Differential Input Voltage	$\pm 5$	V
V <sub>i</sub>	Input Voltage	$\pm 10$	V
T <sub>oper</sub>	Operating Temperature	-10 to +70	°C

**ELECTRICAL CHARACTERISTICS**

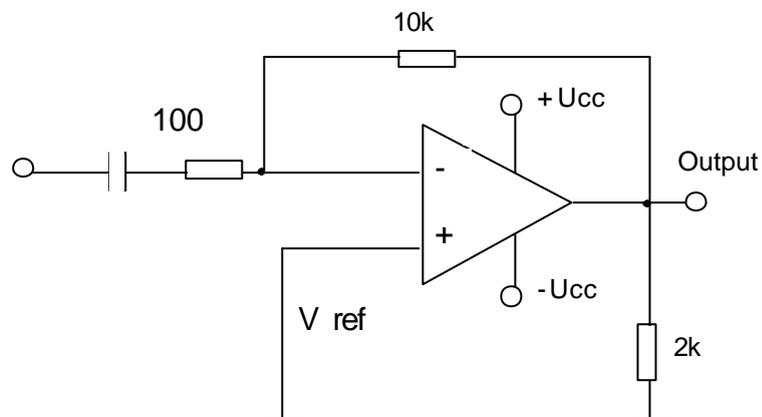
V<sub>cc</sub> =  $\pm 15V$ , T<sub>amb</sub> = +25°C (unless otherwise specified)

Symbol	Parameter	Mode	Min.	Typ.	Max.	Unit
V <sub>o</sub>	Max Output Voltage	U <sub>cc</sub> =15V U <sub>cc</sub> =16,5V	$\pm 11.5$ $\pm 10$			V
V <sub>io</sub>	Input Offset Voltage	U <sub>cc</sub> =15V U <sub>cc</sub> =16,5V			150 250	$\mu$ V
I <sub>cc</sub>	Supply Current	U <sub>cc</sub> =15V U <sub>cc</sub> =16,5V			$\pm 12$ $\pm 14$	mA
A <sub>vd</sub>	Large Signal Voltage Gain	U <sub>cc</sub> =15V U <sub>cc</sub> =16,5V	120 120			V/mV
CMR	Common Mode Rejection Ratio		94			dB
V <sub>icm</sub>	Max Input Common Mode Voltage Range		$\pm 13$	$\pm 15$		V
SVR	Supply Voltage Rejection Ratio		90	-	-	dB
SR	Slew Rate		0.1			V/ $\mu$ S
D <sub>vio</sub>	Input Offset Voltage Drift				6.0	$\mu$ v/°C
D <sub>lio</sub>	Input Offset Current Drift				200	nA/°C



**IL9002N**

## Application



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